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Lists of medicinal products for rare diseases in Europe*

**European Community marketing authorisation under the centralised procedure*

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General table of contents

PART 1:

List of orphan medicinal products in Europe with European orphan designation and European marketing authorisation 3

Table of content	3
Methodology	3
Classification by tradename	5
<i>Annex 1 - Orphan medicinal products removed or withdrawn from the European Community Register of orphan medicinal products</i>	16
<i>Annex 2 - Orphan medicinal products withdrawn from use in the European Union</i>	17
Classification by date of MA in descending order	18
Classification by ATC category	19
Classification by MA holder	20

PART 2:

List of medicinal products intended for rare diseases in Europe with European marketing authorisation* without orphan designation in Europe 21

Table of content	21
Methodology	21
Classification by tradename	22
Classification by date of MA in descending order	40
Classification by ATC category	41
Classification by MA holder	42

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PART 1:

List of orphan medicinal products in Europe with European orphan designation and European marketing authorisation*

Table of content

List of orphan medicinal products in Europe with European orphan designation and European marketing authorisation	3
Methodology	3
Classification by tradename	5
<i>Annex 1 - Orphan medicinal products removed or withdrawn from the European Community Register of orphan medicinal products</i>	<i>16</i>
<i>Annex 2 - Orphan medicinal products withdrawn from use in the European Union</i>	<i>17</i>
Classification by date of MA in descending order	18
Classification by ATC category	19
Classification by MA holder	20

Methodology

This part of the document provides the list of all orphan medicinal products that have received a European Marketing Authorisation (MA) at the date stated in the document. These medicinal products may now be accessible in some, though not necessarily all, European countries. In reality, the accessibility of a certain orphan medicinal products in a certain country depends on the strategy of the laboratory and the decision taken by national health authorities concerning reimbursement.

Orphan medicinal products in Europe are medicinal products that have been granted a European orphan designation (according to the Regulation (EC) No 141/2000), and then that have been granted a European market authorisation and - if applicable - a positive evaluation of significant benefit.

The orphan medicinal products list in Europe, with orphan designation and European marketing authorisations, is determined by cross-referencing the list of medicinal products that have been granted

an orphan designation (<http://ec.europa.eu/health/documents/community-register/html/alforphreg.htm>) with the list of medicinal products that have been granted a marketing authorization (<http://ec.europa.eu/health/documents/community-register/html/alfregister.htm>). Both lists are available on the website of the DG health and consumers (DG Sanco) of the European Commission.

The first classification by tradename provides the name of active substance, the marketing authorisation (MA) indication, the date of MA and the MA holder.

This is followed by two annex tables providing:

- list of orphan medicinal products removed/withdrawn from the Community Register of orphan medicinal products (see Annex 1 - "*Orphan medicinal products removed or withdrawn from the European Community Register of orphan medicinal products*"; their indications are detailed in Part II, "*List of medicinal products intended for rare diseases in*

**European Community marketing authorisation under the centralised procedure*


Europe with European marketing authorisation without orphan designation in Europe”);

- list of orphan medicinal products withdrawn from use in the European Union (see Annex 2- “*Orphan medicinal products withdrawn from use in the European Union*”). More information on <http://www.ema.europa.eu>.

Three additional lists propose another classification by:

- date of MA in descending order;
- ATC category;
- MA holder.

All the tradenames are presented in alphabetical order.

Additional information can be found on each product in the tab “Orphan drugs” on the Orphanet website www.orpha.net or on the EMA website (European Medicines Agency) <http://www.ema.europa.eu>. The EMA listing covers all medicinal products with marketing authorisation, not just orphan medicinal products. Orphan medicinal products that have been granted a European orphan designation are indicated by the logo .





Official and up to date information about orphan medicinal products is available in the Community Register of orphan medicinal products for human use:



<http://ec.europa.eu/health/documents/community-register/html/alforphreg.htm>


Classification by tradename

TRADENAME	ACTIVE SUBSTANCE	MARKETING AUTHORISATION INDICATION	MARKETING AUTHORISATION DATE (DD/MM/YYYY)	MARKETING AUTHORISATION HOLDER
ADCETRIS	Brentuximab vedotin	<p>*Treatment of adult patients with relapsed or refractory CD30+ Hodgkin lymphoma (HL):</p> <ol style="list-style-type: none"> 1. following autologous stem cell transplant (ASCT) or 2. following at least two prior therapies when ASCT or multi-agent chemotherapy is not a treatment option. <p>*Treatment of adult patients with relapsed or refractory systemic anaplastic large cell lymphoma (sALCL).</p>	25/10/2012	Takeda A/S
ADEMPAS	Riociguat	<p>* Chronic thromboembolic pulmonary hypertension (CTEPH)</p> <p>Adempas is indicated for the treatment of adult patients with WHO Functional Class (FC) II to III with</p> <ul style="list-style-type: none"> - inoperable CTEPH, - persistent or recurrent CTEPH after surgical treatment, <p>to improve exercise capacity.</p> <p>* Pulmonary arterial hypertension (PAH)</p> <p>Adempas, as monotherapy or in combination with endothelin receptor antagonists, is indicated for the treatment of adult patients with pulmonary arterial hypertension (PAH) with WHO Functional Class (FC) II to III to improve exercise capacity.</p> <p>Efficacy has been shown in a PAH population including aetiologies of idiopathic or heritable PAH or PAH associated with connective tissue disease.</p>	27/03/2014	Bayer Pharma AG
ARZERRA	Ofatumumab	<p>* In combination with chlorambucil or bendamustine, treatment of patients with chronic lymphocytic leukaemia who have not received prior therapy and who are not eligible for fludarabine-based therapy.</p> <p>* Treatment of refractory chronic lymphocytic leukaemia in patients who are refractory to fludarabine and alemtuzumab.</p>	19/04/2010	Glaxo Group Ltd
ATRIANCE	Nelarabine	<p>Treatment of patients with T-cell acute lymphoblastic leukaemia (T-ALL) and T-cell lymphoblastic lymphoma (T-LBL) whose disease has not responded to or has relapsed following treatment with at least two chemotherapy regimens.</p> <p>Due to the small patient populations in these disease settings, the information to support these indications is based on limited data.</p>	22/08/2007	Glaxo Group Ltd
BOSULIF	Bosutinib	<p>Treatment of adult patients with chronic phase (CP), accelerated phase (AP), and blast phase (BP) Philadelphia chromosome positive chronic myelogenous leukaemia (Ph+ CML) previously treated with one or more tyrosine kinase inhibitor(s) and for whom imatinib, nilotinib and dasatinib are not considered appropriate treatment options.</p>	27/03/2013	Pfizer Ltd

TRADENAME	ACTIVE SUBSTANCE	MARKETING AUTHORISATION INDICATION	MARKETING AUTHORISATION DATE (DD/MM/YYYY)	MARKETING AUTHORISATION HOLDER
BRONCHITOL	Mannitol	For the treatment of cystic fibrosis (CF) in adults aged 18 years and above as an add-on therapy to best standard of care.	13/04/2012	Pharmaxis Pharmaceuticals Limited
CARBAGLU	Carglumic acid	Treatment of hyperammonaemia due to N-acetylglutamate synthase primary deficiency , hyperammonaemia due to isovaleric acidemia , hyperammonaemia due to methymalonic acidemia , hyperammonaemia due to propionic acidemia . <i>This orphan designated product has completed its 10 years of "market exclusivity" for its indication in hyperammonaemia due to N-acetylglutamate synthetase (NAGS) deficiency.</i>	24/01/2003	Orphan Europe S.a.r.l.
CAYSTON	Aztreonam	Suppressive therapy of chronic pulmonary infections due to <i>Pseudomonas aeruginosa</i> in patients with cystic fibrosis (CF) aged 6 years and older.	21/09/2009	Gilead Sciences International Limited
CEPLENE	Histamine dihydrochloride	Maintenance therapy for adult patients with acute myeloid leukaemia in first remission concomitantly treated with interleukin-2 (IL-2). The efficacy of Ceplene has not been fully demonstrated in patients older than age 60.	07/10/2008	Meda AB
 CERDELGA	Eliglustat	Cerdelga is a medicine used for the long-term treatment of adult patients with type-1 Gaucher disease . Cerdelga is used in patients who have type-1 Gaucher disease, which is the type that usually affects the liver, spleen and bones. Cerdelga is used in patients whose body breaks down this medicine at normal speed (known as 'intermediate' or 'extensive metabolisers') or at slow speed ('poor metabolisers').	19/01/2015	Genzyme Europe BV
COMETRIQ	Cabozantinib	Treatment of adult patients with progressive, unresectable locally advanced or metastatic medullary thyroid carcinoma . For patients in whom Rearranged during Transfection (RET) mutation status is not known or is negative, a possible lower benefit should be taken into account before individual treatment decision.	21/03/2014	TMC Pharma Services Ltd.
 CYRAMZA	Ramucirumab	Cyamza is a cancer medicine used to treat adult patients with advanced gastric cancer (cancer of the stomach) or cancer of the area where the gullet (oesophagus) enters the stomach (known as gastro-oesophageal junction adenocarcinoma). Cyamza is used in combination with another medicine, paclitaxel, when the disease has worsened despite treatment with medicines containing platinum and fluoropyrimidines.	19/12/2014	Eli Lilly Nederland B.V.
CYSTADANE	Betaine anhydrous	Adjunctive treatment of homocystinuria , involving deficiencies or defects in cystathionine beta-synthase (CBS), 5,10-methylene-tetrahydrofolate reductase (MTHFR), cobalamin cofactor metabolism (cbl). Cystadane should be used as supplement to other therapies such as vitamin B6 (pyridoxine), vitamin B12 (cobalamin), folate and a specific diet.	15/02/2007	Orphan Europe S.a.r.l.

TRADENAME	ACTIVE SUBSTANCE	MARKETING AUTHORISATION INDICATION	MARKETING AUTHORISATION DATE (DD/MM/YYYY)	MARKETING AUTHORISATION HOLDER
DACOGEN	Decitabine	Treatment of adult patients aged 65 years and above with newly diagnosed de novo or secondary acute myeloid leukaemia (AML) , according to the World Health Organization (WHO) classification, who are not candidates for standard induction chemotherapy.	20/09/2012	Janssen-Cilag International N V
DEFITELIO	Defibrotide	Defitelio is indicated for the treatment of severe hepatic veno-occlusive disease (VOD) also known as sinusoidal obstructive syndrome (SOS) in haematopoietic stem-cell transplantation (HSCT) therapy. It is indicated in adults and in adolescents, children and infants over 1 month of age.	18/10/2013	Gentium S.p.a.
DELTYBA	Delamanib	Deltyba is indicated for use as part of an appropriate combination regimen for pulmonary multi-drug resistant tuberculosis (MDR-TB) in adult patients when an effective treatment regimen cannot otherwise be composed for reasons of resistance or tolerability. Consideration should be given to official guidance on the appropriate use of antibacterial agents.	28/04/2014	Otsuka Novel Products GmbH
DIACOMIT	Stiripentol	Use in conjunction with clobazam and valproate as adjunctive therapy of refractory generalized tonic-clonic seizures in patients with severe myoclonic epilepsy in infancy (SMEI, Dravet's syndrome) whose seizures are not adequately controlled with clobazam and valproate.	04/01/2007	Biocodex
ELAPRASE	Idursulfase	Long-term treatment of patients with Hunter syndrome (Mucopolysaccharidosis II, MPS II).	08/01/2007	Shire Human Genetic Therapies AB
ESBRIET	Pirfenidone	In adults for the treatment of mild to moderate Idiopathic Pulmonary Fibrosis (IPF) .	28/02/2011	InterMune UK Ltd.
EVOLTRA	Clofarabine	Treatment of acute lymphoblastic leukaemia (ALL) in paediatric patients who have relapsed or are refractory after receiving at least two prior regimens and where there is no other treatment option anticipated to result in a durable response. Safety and efficacy have been assessed in studies of patients ≤ 21 years old at initial diagnosis.	29/05/2006	Genzyme Europe B.V.
EXJADE	Deferasirox	*Treatment of chronic iron overload due to frequent blood transfusions (≥ 7 ml/kg/month of packed red blood cells) in patients with beta thalassaemia major aged 6 years and older. *Treatment of chronic iron overload due to blood transfusions when deferoxamine therapy is contraindicated or inadequate in the following patient groups: - in patients with beta thalassaemia major with iron overload due to frequent blood transfusions in (≥ 7 ml/kg/month of packed red blood cells) patients aged 2 to 5 years - in patients with beta thalassaemia major with iron overload due to infrequent blood transfusions (< 7 ml/kg/month of packed red blood cells) aged 2 years and older, - in patients with other anaemias aged 2 years and older.	28/08/2006	Novartis Europharm Ltd

TRADENAME	ACTIVE SUBSTANCE	MARKETING AUTHORISATION INDICATION	MARKETING AUTHORISATION DATE (DD/MM/YYYY)	MARKETING AUTHORISATION HOLDER
FIRAZYR	Icatibant acetate	Symptomatic treatment of acute attacks of hereditary angioedema (HAE) in adults (with C1-esterase-inhibitor deficiency).	11/07/2008	Shire Orphan Therapies GmbH
FIRDAPSE (ex-ZENAS)	Amifampridine	Symptomatic treatment of Lambert-Eaton myasthenic syndrome (LEMS) in adults.	23/12/2009	Biomarin Europe Ltd
GAZYVARO	Riociguat	In combination with chlorambucil, treatment of adult patients with previously untreated chronic lymphocytic leukaemia (CLL) and with comorbidities making them unsuitable for full-dose fludarabine based therapy.	23/07/2014	Roche Registration Limited
GLIOLAN	5-aminolevulinic acid hydrochloride	In adult patients for visualisation of malignant tissue during surgery for malignant glioma (World Health Organization grade III and IV).	07/09/2007	Medac GmbH
GLYBERA	Alipogene tiparvovec	For adult patients diagnosed with familial lipoprotein lipase deficiency (LPLD) and suffering from severe or multiple pancreatitis attacks despite dietary fat restrictions. The diagnosis of LPLD has to be confirmed by genetic testing. The indication is restricted to patients with detectable levels of LPL protein.	29/10/2012	uniQure bio-pharma B.V.
 HOLOCLAR	ex vivo expanded autologous human corneal epithelial cells containing stem cells	Holoclar is a stem-cell treatment used in the eye to replace damaged cells on surface (epithelium) of the cornea, the transparent layer in front of the eye covering the iris (the coloured part). It is used in adult patients with moderate to severe limbal stem-cell deficiency caused by burns, including chemical burns, to the eyes. Patients with this condition do not have enough limbal stem cells which normally act as a regeneration system, replenishing the outer corneal cells when they get damaged and when they age. Holoclar is a type of advanced therapy product called a 'tissue engineered product'. It consists of cells taken from the patient's limbus (at the edge of the cornea) and then grown in a laboratory so that they can be used to repair the damaged corneal surface.	17/02/2015	Chiesi Farmaceutici S.p.A.
ICLUSIG	Ponatinib	Iclusig is indicated in adult patients with : - chronic phase, accelerated phase, or blast phase chronic myeloid leukaemia (CML) who are resistant to dasatinib or nilotinib; who are intolerant to dasatinib or nilotinib and for whom subsequent treatment with imatinib is not clinically appropriate; or who have the T315I mutation ; - Philadelphia chromosome positive acute lymphoblastic leukaemia (Ph+ ALL) who are resistant to dasatinib; who are intolerant to dasatinib and for whom subsequent treatment with imatinib is not clinically appropriate; or who have the T315I mutation.	01/07/2013	ARIAD Pharma Ltd
 IMBRUVICA	Ibrutinib	Treatment of adult patients with relapsed or refractory mantle cell lymphoma (MCL). Treatment of adult patients with chronic lymphocytic leukaemia (CLL) who have received at least one prior therapy, or in first line in the presence of 17p deletion or TP53 mutation in patients unsuitable for chemo-immunotherapy.	21/10/2014	Janssen-Cilag International NV

TRADENAME	ACTIVE SUBSTANCE	MARKETING AUTHORISATION INDICATION	MARKETING AUTHORISATION DATE (DD/MM/YYYY)	MARKETING AUTHORISATION HOLDER
IMNOVID (ex POMA-LIDOMIDE CELGENE)	Pomalidomide	In combination with dexamethasone, in the treatment of adult patients with relapsed and refractory multiple myeloma who have received at least two prior treatment regimens, including both lenalidomide and bortezomib, and have demonstrated disease progression on the last therapy.	05/08/2013	Celgene Europe Limited
INCRELEX	Mecasermin	Long-term treatment of growth failure in children and adolescents with severe primary insulin-like growth factor 1 deficiency (Primary IGFD). Severe Primary IGFD is defined by: - height standard deviation score ≤ -3.0 and - basal IGF-1 levels below the 2.5th percentile for age and gender and - GH sufficiency. - exclusion of secondary forms of IGF-1 deficiency, such as malnutrition, hypothyroidism, or chronic treatment with pharmacologic doses of anti-inflammatory steroids. Severe Primary IGFD includes patients with mutations in the GH receptor (GHR), post-GHR signaling pathway, and IGF-1 gene defects; they are not GH deficient, and therefore, they cannot be expected to respond adequately to exogenous GH treatment. It is recommended to confirm the diagnosis by conducting an IGF-1 generation test.	03/08/2007	Ipsen Pharma
INOVELON	Rufinamide	Adjunctive therapy in the treatment of seizures associated with Lennox Gastaut syndrome in patients aged 4 years and older.	16/01/2007	Eisai Ltd
JAKAVI	Ruxolitinib	Treatment of disease-related splenomegaly or symptoms in adult patients with primary myelofibrosis (also known as chronic idiopathic myelofibrosis), post-polycythaemia-vera myelofibrosis or post-essential-thrombocythaemia myelofibrosis .	23/08/2012	Novartis Euro-pharm Ltd
KALYDECO	Ivacaftor	Treatment of cystic fibrosis (CF) in patients age 6 years and older who have one of the following gating (class III) mutations in the <i>CFTR</i> gene: <i>G551D</i> , <i>G1244E</i> , <i>G1349D</i> , <i>G178R</i> , <i>G551S</i> , <i>S1251N</i> , <i>S1255P</i> , <i>S549N</i> , or <i>S549R</i> .	23/07/2012	Vertex Pharmaceuticals (U.K.) Limited
 KETOCONAZOLE HRA	Ketoconazole	Ketoconazole HRA is a medicine used to treat adults and children above the age of 12 years with Cushing's syndrome .	19/11/2014	Laboratoire HRA Pharma
KOLBAM (ex CHOLIC ACID FGK)	Cholic acid	Cholic acid FGK is indicated for the treatment of inborn errors in primary bile acid synthesis due to Sterol 27-hydroxylase (presenting as cerebrotendinous xanthomatosis, CTX) deficiency, 2- (or α-) methylacyl-CoA racemase (AMACR) deficiency or Cholesterol 7α-hydroxylase (CYP7A1) deficiency in infants, children and adolescents aged 1 month to 18 years and adults.	04/04/2014	FGK Representative Service GmbH



TRADENAME	ACTIVE SUBSTANCE	MARKETING AUTHORISATION INDICATION	MARKETING AUTHORISATION DATE (DD/MM/YYYY)	MARKETING AUTHORISATION HOLDER
KUVAN	Sapropterin dihydrochloride	*Treatment of hyperphenylalaninaemia (HPA) in adult and paediatric patients of 4 years of age and over with phenylketonuria (PKU) who have been shown to be responsive to such treatment *Treatment of hyperphenylalaninaemia (HPA) in adult and paediatric patients with tetrahydrobiopterin (BH4) deficiency who have been shown to be responsive to such treatment.	02/12/2008	Merck Serono Europe Ltd
LYNPARZA	Olaparib	Lynparza is a cancer medicine used for the 'maintenance' treatment of adult patients with high grade serous epithelial cancer of the ovary (a type of advanced cancer of the ovary), including cancer of the fallopian tubes (part of the female reproductive system that connect the ovaries to the uterus) and cancer of the peritoneum (the membrane lining the abdomen). Lynparza is used in patients who have mutations (defects) in one of the two genes known as BRCA1 and BRCA2 and who have recurrent disease (when the cancer has come back after previous treatment). Lynparza is given after treatment with platinum-based medicines, when the tumour is diminishing in size or has completely disappeared. It is given to those patients whose previous treatment with platinum-based medicines led to a durable response (lasting 6 months or more).	16/12/2014	AstraZeneca AB
MEPACT	Mifamurtide	In children, adolescents and young adults for the treatment of high-grade resectable non-metastatic osteosarcoma after macroscopically complete surgical resection. It is used in combination with post-operative multi-agent chemotherapy.	06/03/2009	Takeda France SAS
MOZOBIL	Plerixafor	In combination with G-CSF to enhance mobilisation of haematopoietic stem cells to the peripheral blood for collection and subsequent autologous transplantation in patients with lymphoma and multiple myeloma whose cells mobilise poorly.	31/07/2009	Genzyme Europe B.V.
MYOZYME	Recombinant human acid alpha-glucosidase INN = Alglucosidase alpha	Long-term enzyme replacement therapy (ERT) in patients with a confirmed diagnosis of Pompe disease (acid α -glucosidase deficiency).	29/03/2006	Genzyme Europe B.V.
NAGLAZYME	N-acetylgalactosamine-4-sulfatase INN = Galsulfase	Long-term enzyme replacement therapy in patients with a confirmed diagnosis of Mucopolysaccharidosis VI (MPS VI; N-acetylgalactosamine 4-sulfatase deficiency; Maroteaux-Lamy syndrome).	24/01/2006	BioMarin Europe Ltd
NEXAVAR	Sorafenib tosylate	*Treatment of hepatocellular carcinoma *Treatment of patients with advanced renal cell carcinoma who have failed prior interferon-alpha or interleukin-2 based therapy or are considered unsuitable for such therapy. * Treatment of patients with progressive, locally advanced or metastatic, differentiated (papillary/follicular/Hürthle cell) thyroid carcinoma , refractory to radioactive iodine.	19/07/2006	Bayer Pharma AG



TRADENAME	ACTIVE SUBSTANCE	MARKETING AUTHORISATION INDICATION	MARKETING AUTHORISATION DATE (DD/MM/YYYY)	MARKETING AUTHORISATION HOLDER
NEXOBRID	Concentrate of proteolytic enzymes enriched in bromelain	Removal of eschar in adults with deep partial- and full-thickness thermal burns.	18/12/2012	Mediowound Germany Gmbh
NPLATE	Romiplostim	Adult chronic immune (idiopathic) thrombocytopenic purpura (ITP) in splenectomised patients who are refractory to other treatments (e.g. corticosteroids, immunoglobulins). Nplate may be considered as second line treatment for adult non-splenectomised patients where surgery is contra-indicated.	04/02/2009	Amgen Europe B.V.
OFEV	Nintedanib	Ofev is a medicine used to treat adults with idiopathic pulmonary fibrosis (IPF).	15/01/2015	Boehringer Ingelheim International GmbH
OPSUMIT	Macitentan	Opsumit, as monotherapy or in combination, is indicated for the long-term treatment of pulmonary arterial hypertension (PAH) in adult patients of WHO Functional Class (FC) II to III. Efficacy has been shown in a PAH population including idiopathic and heritable PAH, PAH associated with connective tissue disorders, and PAH associated with corrected simple congenital heart disease.	20/12/2013	Actelion Registration Ltd
ORFADIN	Nitisinone	Treatment of patients with confirmed diagnosis of hereditary tyrosinemia type 1 (HT-1) in combination with dietary restriction of tyrosine and phenylalanine.	21/02/2005	Swedish Orphan Biovitrum International AB
ORPHACOL	Cholic acid	Treatment of inborn errors in primary bile acid synthesis due to 3β-Hydroxy-Δ⁵-C₂₇-steroid oxidoreductase deficiency or Δ⁴-3-Oxosteroid-5β-reductase deficiency in infants, children and adolescents aged 1 month to 18 years and adults.	12/09/2013	Laboratoires CTRS
PARA-AMINOSALICYLIC ACID LUCANE	Para-aminosalicylic acid	Para-aminosalicylic acid Lucane is indicated for use as part of an appropriate combination regimen for multi-drug resistant tuberculosis in adults and paediatric patients from 28 days of age and older when an effective treatment regimen cannot otherwise be composed for reasons of resistance or tolerability	07/04/2014	Lucane Pharma
PEDEA	Ibuprofen	Treatment of a haemodynamically significant patent ductus arteriosus in preterm newborn infants less than 34 weeks of gestational age.	29/07/2004	Orphan Europe S.a.r.l.
PEYONA (ex-NYMUSA)	Caffeine citrate	Treatment of primary apnea of premature newborns.	02/07/2009	Chiesi Farmaceutici SpA
PLENADREN	Hydrocortisone	Treatment of adrenal insufficiency in adults.	03/11/2011	ViroPharma SPRL
PRIALT	Ziconotide (intraspinal use)	Treatment of severe, chronic pain in patients who require intrathecal (IT) analgesia.	21/02/2005	Eisai Ltd
PROCYSBI	Mercaptamine bitartrate	Treatment of proven nephropathic cystinosis. Cysteamine reduces cystine accumulation in some cells (e.g. leukocytes, muscle and liver cells) of nephropathic cystinosis patients and, when treatment is started early, it delays the development of renal failure.	06/09/2013	Raptor Pharmaceuticals Europe B.V.

TRADENAME	ACTIVE SUBSTANCE	MARKETING AUTHORISATION INDICATION	MARKETING AUTHORISATION DATE (DD/MM/YYYY)	MARKETING AUTHORISATION HOLDER
REVATIO	Sildenafil citrate	<p>*Treatment of adult patients with pulmonary arterial hypertension classified as WHO functional class II and III, to improve exercise capacity. Efficacy has been shown in primary pulmonary hypertension and pulmonary hypertension associated with connective tissue disease.</p> <p>*Treatment of paediatric patients aged 1 year to 17 years old with pulmonary arterial hypertension. Efficacy in terms of improvement of exercise capacity or pulmonary haemodynamics has been shown in primary pulmonary hypertension and pulmonary hypertension associated with congenital heart disease.</p> <p>Revatio solution for injection is for the treatment of adult patients with pulmonary arterial hypertension who are currently prescribed oral Revatio and who are temporarily unable to take oral therapy, but are otherwise clinically and haemodynamically stable.</p>	28/10/2005	Pfizer Ltd
REVESTIVE	Teduglutide	Treatment of adult patients with Short Bowel Syndrome . Patients should be stable following a period of intestinal adaptation after surgery.	30/08/2012	NPS Pharma Holdings Limited
REVLIMID	Lenalidomide	<p>* Revlimid in combination with dexamethasone is indicated for the treatment of multiple myeloma in adult patients who have received at least one prior therapy.</p> <p>* Revlimid is indicated for the treatment of patients with transfusion-dependent anaemia due to low- or intermediate-1-risk myelodysplastic syndromes associated with an isolated deletion 5q cytogenetic abnormality when other therapeutic options are insufficient or inadequate.</p>	14/06/2007	Celgene Europe Ltd
SAVENE	Dexrazoxane	In adults for the treatment of anthracycline extravasation .	28/07/2006	Norgine B.V.
SCENESSE	Afamelanotide	<p>Scenesse is an implant used to treat patients with erythropoietic protoporphyria (EPP), a rare disease that causes intolerance to light.</p> <p>In patients with EPP, exposure to light can lead to symptoms such as pain and swelling of the skin, which prevent patients from being able to spend time outdoors or in places with bright light. Scenesse is used to help prevent or reduce these symptoms so that these patients can lead more normal lives.</p>	22/12/2014	Clinuvel UK Limited
SIGNIFOR	Pasireotide	Treatment of adult patients with Cushing's disease for whom surgery is not an option or for whom surgery has failed.	24/04/2012	Novartis Euro-pharm Ltd
SIKLOS	Hydroxycarbamide	Prevention of recurrent painful vaso-occlusive crises including acute chest syndrome in adults, adolescents and children older than 2 years suffering from symptomatic Sickle Cell Syndrome .	29/06/2007	Addmedica
SIRTURO	Bedaquiline	SIRTURO is indicated for use as part of an appropriate combination regimen for pulmonary multidrug-resistant tuberculosis (MDR-TB) in adult patients when an effective treatment regimen cannot otherwise be composed for reasons of resistance or tolerability. Consideration should be given to official guidance on the appropriate use of antibacterial agents.	05/03/2014	Janssen-Cilag International N.V.

NEW

TRADENAME	ACTIVE SUBSTANCE	MARKETING AUTHORISATION INDICATION	MARKETING AUTHORISATION DATE (DD/MM/YYYY)	MARKETING AUTHORISATION HOLDER
SOLIRIS	Eculizumab	For the treatment of adults and children with : - paroxysmal nocturnal haemoglobinuria (PNH). Evidence of clinical benefit of Soliris in the treatment of patients with PNH is limited to patients with history of transfusions; - atypical haemolytic uraemic syndrome (aHUS).	20/06/2007	Alexion Europe SAS
SPRYCEL	Dasatinib	Treatment of adult patients with: - newly diagnosed Philadelphia chromosome positive (Ph+) chronic myelogenous leukaemia (CML) in the chronic phase. - chronic, accelerated or blast phase CML with resistance or intolerance to prior therapy including imatinib mesilate. - Ph+ acute lymphoblastic leukaemia (ALL) and lymphoid blast CML with resistance or intolerance to prior therapy.	20/11/2006	Bristol-Myers Squibb Pharma EEIG
SYLVANT	Siltuximab	Treatment of adult patients with multicentric Castleman's disease (MCD) who are human immunodeficiency virus (HIV) negative and human herpesvirus-8 (HHV-8) negative.	22/05/2014	Janssen-Cilag International NV
TASIGNA	Nilotinib	* Tasigna 150 mg Treatment of adult patients with newly diagnosed Philadelphia-chromosome-positive chronic myelogenous leukaemia (CML) in the chronic phase. * Tasigna 200 mg Treatment of adult patients with : - newly diagnosed Philadelphia-chromosome-positive CML in the chronic phase; - chronic phase and accelerated phase Philadelphia-chromosome-positive CML with resistance or intolerance to prior therapy including imatinib. Efficacy data in patients with CML in blast crisis are not available.	19/11/2007	Novartis Europharm Ltd
TEPADINA	Thiotepa	In combination with other chemotherapy medicinal products: 1) with or without total body irradiation (TBI), as conditioning treatment prior to allogeneic or autologous haematopoietic progenitor cell transplantation (HPCT) in haematological diseases in adult and paediatric patients; 2) when high dose chemotherapy with HPCT support is appropriate for the treatment of solid tumours in adult and paediatric patients. It is proposed that Tepadina must be prescribed by physicians experienced in conditioning treatment prior to haematopoietic progenitor cell transplantation.	15/03/2010	Adienne S.r.l.
THALIDOMIDE CELGENE	Thalidomide	In combination with melphalan and prednisone as first line treatment of patients with untreated multiple myeloma , aged ≥ 65 years or ineligible for high dose chemotherapy.	16/04/2008	Celgene Europe Ltd
TOBI PODHALER	Tobramycin	Suppressive therapy of chronic pulmonary infection due to <i>Pseudomonas aeruginosa</i> in adults and children aged 6 years and older with cystic fibrosis .	20/07/2011	Novartis Europharm Limited

TRADENAME	ACTIVE SUBSTANCE	MARKETING AUTHORISATION INDICATION	MARKETING AUTHORISATION DATE (DD/MM/YYYY)	MARKETING AUTHORISATION HOLDER
TORISEL	Temsirolimus	*First-line treatment of adult patients with advanced renal cell carcinoma (RCC) who have at least three of six prognostic risk factors. *Treatment of adult patients with relapsed and / or refractory mantle cell lymphoma (MCL).	19/11/2007	Pfizer Limited
TRACLEER	Bosentan monohydrate	* Treatment of pulmonary arterial hypertension (PAH) to improve exercise capacity and symptoms in patients with WHO functional class III. Efficacy has been shown in : - primary (idiopathic and heritable) PAH, - PAH secondary to scleroderma without significant interstitial pulmonary disease, - PAH associated with congenital systemic-to-pulmonary shunts and Eisenmenger's physiology. Some improvements have also been shown in patients with PAH WHO functional class II. * To reduce the number of new digital ulcers in patients with systemic sclerosis and ongoing digital ulcer disease. <i>This orphan designated product has completed its 10 years of "market exclusivity" for its indication in pulmonary arterial hypertension.</i>	15/05/2002	Actelion Registration Ltd
TRANSLARNA	Ataluren	Treatment of Duchenne muscular dystrophy resulting from a nonsense mutation in the dystrophin gene, in ambulatory patients aged 5 years and older. Efficacy has not been demonstrated in non-ambulatory patients. The presence of a nonsense mutation in the dystrophin gene should be determined by genetic testing.	31/07/2014	PTC Therapeutics Limited
VIDAZA	Azacitidine	Treatment of adult patients who are not eligible for haematopoietic stem cell transplantation with: - intermediate-2 and high-risk myelodysplastic syndromes (MDS) according to the International Prognostic Scoring System (IPSS), - chronic myelomonocytic leukaemia (CMML) with 10-29% marrow blasts without myeloproliferative disorder, - acute myeloid leukaemia (AML) with 20-30 % blasts and multi-lineage dysplasia, according to World Health Organisation (WHO) classification.	17/12/2008	Celgene Europe Ltd
VIMIZIM	Recombinant human n-acetylgalactosamine-6-sulfatase (INN = Elosulfase alfa)	Treatment of mucopolysaccharidosis, type IVA (Morquio A Syndrome, MPS IVA) in patients of all ages.	28/04/2014	BioMarin Europe Limited
VOLIBRIS	Ambrisentan	Treatment of patients with pulmonary arterial hypertension (PAH) classified as WHO functional class II and III, to improve exercise capacity. Efficacy has been shown in idiopathic PAH (IPAH) and in PAH associated with connective tissue disease.	21/04/2008	Glaxo Group Ltd

TRADENAME	ACTIVE SUBSTANCE	MARKETING AUTHORISATION INDICATION	MARKETING AUTHORISATION DATE (DD/MM/YYYY)	MARKETING AUTHORISATION HOLDER
VOTUBIA	Everolimus	<p>* Treatment of adult patients with renal angiomyolipoma associated with tuberous sclerosis complex (TSC) who are at risk of complications (based on factors such as tumour size or presence of aneurysm, or presence of multiple or bilateral tumours) but who do not require immediate surgery. The evidence is based on analysis of change in sum of angiomyolipoma volume.</p> <p>* Treatment of patients with subependymal giant cell astrocytoma (SEGA) associated with tuberous sclerosis complex (TSC) who require therapeutic intervention but are not amenable to surgery. The evidence is based on analysis of change in SEGA volume. Further clinical benefit, such as improvement in disease-related symptoms, has not been demonstrated.</p>	02/09/2011	Novartis Euro-pharm Ltd
VPRIV	Velaglucerase alfa	Long-term enzyme replacement therapy (ERT) in patients with type 1 Gaucher disease .	26/08/2010	Shire Pharmaceuticals Ireland Ltd
VYENDAQUEL	Tafamidis	Treatment of transthyretin amyloidosis in adult patients with stage 1 symptomatic polyneuropathy to delay peripheral neurologic impairment.	16/11/2011	Pfizer Ltd
WILZIN	Zinc acetate dihydrate	Treatment of Wilson's disease .	13/10/2004	Orphan Europe S.a.r.l.
XAGRID	Anagrelide hydrochloride	<p>Reduction of elevated platelet counts in at-risk essential-thrombocythaemia (ET) patients who are intolerant to their current therapy or whose elevated platelet counts are not reduced to an acceptable level by their current therapy.</p> <p>An at-risk patient An at risk ET is defined by one or more of the following features: - > 60 years of age or - a platelet count > 1000 x 10⁹/l or - a history of thrombo-haemorrhagic events.</p>	16/11/2004	Shire Pharmaceutical Contracts Ltd
XALUPRINE (ex-MERCAPTOPURINE NOVA)	Mercaptopurine	Treatment of acute lymphoblastic leukaemia (ALL) in adults, adolescents and children.	09/03/2012	Nova Laboratories Ltd
YONDELIS	Trabectedin	<p>*Treatment of patients with advanced soft tissue sarcoma, after failure of anthracyclines and ifosfamide, or who are unsuited to receive these agents. Efficacy data are based mainly on liposarcoma and leiomyosarcoma patients.</p> <p>*In combination with pegylated liposomal doxorubicin (PLD), treatment of patients with relapsed platinum-sensitive ovarian cancer.</p>	17/09/2007	Pharma Mar S.A.
ZAVESCA	Miglustat	<p>*Oral treatment of adult patients with mild to moderate type 1 Gaucher disease. Zavesca may be used only in the treatment of patients for whom enzyme replacement therapy is unsuitable</p> <p>*Treatment of progressive neurological manifestations in adult patients and paediatric patients with Niemann-Pick type C disease.</p> <p><i>This orphan designated product has completed its 10 years of "market exclusivity" for its indication in Gaucher Disease.</i></p>	20/11/2002	Actelion Registration Ltd

Annex 1

Orphan medicinal products removed or withdrawn from the European Community Register of orphan medicinal products

Cf. Part II "List of medicinal products intended for rare diseases in Europe with European marketing authorisation without orphan designation in Europe".

TRADENAME	ACTIVE SUBSTANCE	REGULAR STATUS
AFINITOR	Everolimus	This product is no longer an orphan medicine. It was originally designated an orphan medicine on 5 June 2007. Upon request of the marketing authorisation holder, Afinitor has now been removed from the Community Register of orphan medicinal products.
ALDURAZYME	Laronidase	This product is no longer an orphan medicine. It was originally designated an orphan medicine on 14 February 2001. Aldurazyme was withdrawn from the Community register of orphan medicinal products in June 2013 at the end of the period of market exclusivity.
BUSILVEX	Busulfan	This product is no longer an orphan medicine. It was originally designated an orphan medicine on 29 December 2001. Busilvex was withdrawn from the Community register of orphan medicinal products in October 2013 at the end of the period of market exclusivity.
FABRAZYME	Recombinant human alphagalactosidase A INN = Agalsidase beta	This product is no longer an orphan medicine. It was originally designated an orphan medicine on 8 August 2000. Fabrazyme was withdrawn from the Community register of orphan medicinal products in August 2011 at the end of the period of market exclusivity.
GLIVEC	Imatinib mesilate	This product is no longer an orphan medicine. It was originally designated an orphan medicine for the following conditions: - treatment of chronic myeloid leukaemia (14/02/2001); - treatment of malignant gastrointestinal stromal tumours (20/11/2001); - treatment of dermatofibrosarcoma protuberans (26/08/2005); - treatment of acute lymphoblastic leukaemia (26/08/2005); - treatment of chronic eosinophilic leukaemia and the hypereosinophilic syndrome (28/10/2005); - treatment of myelodysplastic / myeloproliferative diseases (23/12/2005). Upon request of the marketing-authorisation holder, Glivec has now been removed from the Community register of orphan medicinal products.
ILARIS	Canakinumab	This product is no longer an orphan medicine. It was originally designated an orphan medicine on 20 March 2007. Upon request of the marketing authorisation holder, Ilaris has now been removed from the Community Register of orphan medicinal products.
LITAK	Cladribine (subcutaneous use)	This product is no longer an orphan medicine. It was originally designated an orphan medicine on 14 April 2004. Upon request of the marketing-authorisation holder, Litak has now been removed from the Community Register of orphan medicinal products.
LYSODREN	Mitotane	This product is no longer an orphan medicine. It was originally designated an orphan medicine on 28 April 2004. LYSODREN was withdrawn from the Community register of orphan medicinal products in April 2014 at the end of the 10-year period of market exclusivity.
NOVOTHIRTEEN	Catridecacog	This product is no longer an orphan medicine. It was originally designated an orphan medicine on 12 December 2003. Upon request of the marketing-authorisation holder, NovoThirteen has now been removed from the Community Register of orphan medicinal products.
REPLAGAL	Agalsidase alfa	This product is no longer an orphan medicine. It was originally designated an orphan medicine on 8 August 2000. Replagal was withdrawn from the Community register of orphan medicinal products in August 2011 at the end of the period of market exclusivity.

TRADENAME	ACTIVE SUBSTANCE	REGULAR STATUS
REVOLADE	Eltrombopag	This product is no longer an orphan medicine. It was originally designated an orphan medicine on 3 August 2007. Upon request of the marketing authorisation holder, Revolade has now been removed from the Community Register of orphan medicinal products.
SOMAVERT	Pegvisomant	This product is no longer an orphan medicine. It was originally designated an orphan medicine on 14 February 2001. Somavert was withdrawn from the Community register of orphan medicinal products in November 2012 at the end of the period of market exclusivity.
SUTENT	Sunitinib malate	This product is no longer an orphan medicine. This product was originally an orphan designated on 10 March 2005. Upon request of the marketing authorisation holder, Sutent has now been removed from the Community register of orphan medicinal products.
TRISENOX	Arsenic trioxide	This product is no longer an orphan medicine. It was originally designated an orphan medicine on 18 October 2000. Trisenox was withdrawn from the Community register of orphan medicinal products in March 2012 at the end of the 10-year period of market exclusivity.
VENTAVIS	Iloprost	This product is no longer an orphan medicine. It was originally designated an orphan medicine on 29 December 2000. VENTAVIS was withdrawn from the Community register of orphan medicinal products in September 2013 at the end of the 10-year period of market exclusivity.
XYREM	Sodium oxybate	This product is no longer an orphan medicine. This product was originally an orphan designated on 3 February 2003. Upon request of the marketing authorisation holder, Xyrem has now been removed from the Community register of orphan medicinal products.

Annex 2

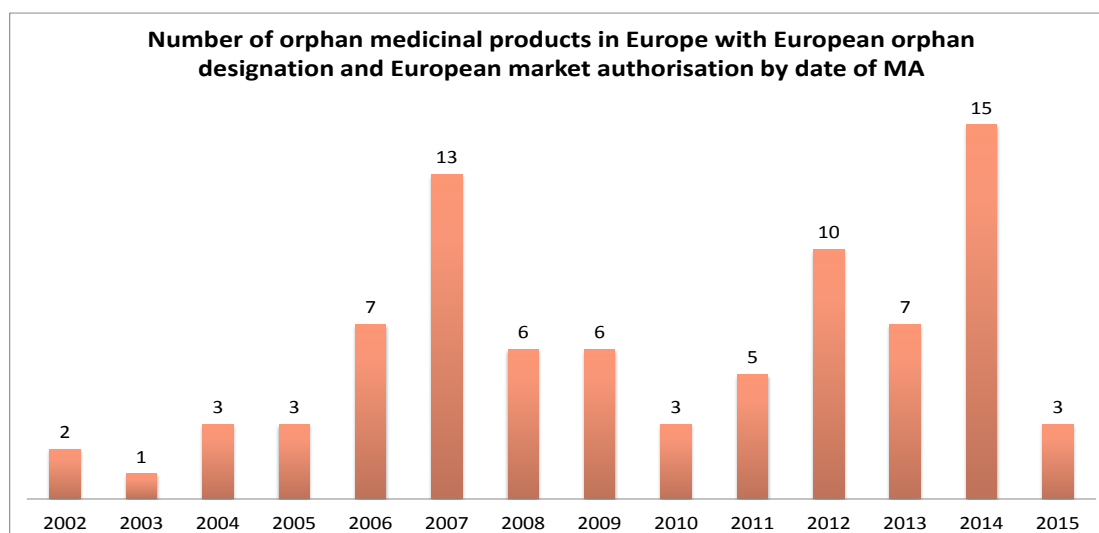
Orphan medicinal products withdrawn from use in the European Union

More information on www.ema.europa.eu

TRADENAME	ACTIVE SUBSTANCE	MARKETING AUTHORISATION (MA) INDICATION	MA DATE / MA HOLDER	MA WITH-DRAWN DATE
ONSENAL	Celecoxib	Reduction of the number of adenomatous intestinal polyps in familial adenomatous polyposis (FAP), as an adjunct to surgery and further endoscopic surveillance.	17/10/2003 Pfizer Ltd	24/03/2011
PHOTOBARR	Porfimer sodium (for use with photodynamic therapy)	Ablation of high-grade dysplasia (HGD) in patients with Barrett's Oesophagus .	25/03/2004 Pinnacle Biologics B.V.	20/04/2012
RILONACEPT REGENERON (ex-ARCALYST)	Rilonacept	Treatment of Cryopyrin-Associated Periodic Syndromes (CAPS) with severe symptoms, including Familial Cold Autoinflammatory Syndrome (FCAS) and Muckle-Wells Syndrome (MWS), in adults and children aged 12 years and older.	23/10/2009 Regeneron UK Limited	24/10/2012
THELIN	Sitaxentan sodium	Treatment of patients with pulmonary arterial hypertension classified as WHO functional class III, to improve exercise capacity. Efficacy has been shown in primary pulmonary hypertension and in pulmonary hypertension associated with connective tissue disease.	10/08/2006 Pfizer Ltd	06/01/2011

Classification by date of MA in descending order

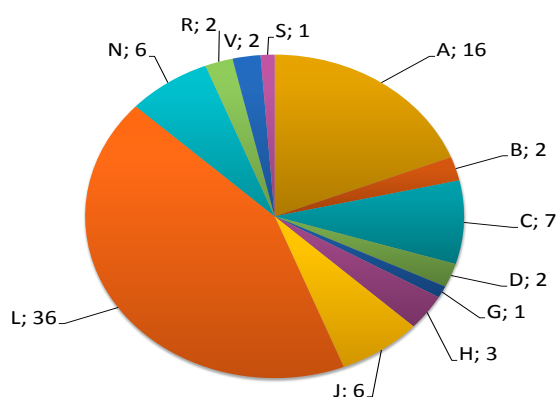
2015	ICLUSIG	2009	SOLIRIS
CERDELGA	IMNOVID	CAYSTON	TASIGNA
HOLOCLAR	ORPHACOL	FIRDAPSE	TORISEL
OFEV	PROCYSBI	MEPACT	YONDELIS
2014	2012	MOZOBIL	2006
ADEMPAS	ADCETRIS	NPLATE	EVOLTRA
CYRAMZA	BRONCHITOL	PEYONA	EXJADE
COMETRIQ	DACOGEN	2008	MYOZYME
DELTIBA	GLYBERA	CEPLENE	NAGLAZYME
GAZYVARO	JAKAVI	FIRAZYR	NEXAVAR
IMBRUVICA	KALYDECO	KUVAN	SAVENE
KETOCONAZOLE HRA	NEXOBRID	THALIDOMIDE CELGENE	SPRYCEL
KOLBAM	REVESTIVE	VIDAZA	2005
LYNPARZA	SIGNIFOR	VOLIBRIS	ORFADIN
PARA AMINOACID LUCANE	XALUPRINE	2007	PRIALT
SCENESSE	2011	ATRIANCE	REVATIO
SIRTURO	ESBRIET	CYSTADANE	2004
SYLVANT	PLENADREN	DIACOMIT	PEDEA
TRANSLARNA	TOBI PODHALER	ELAPRASE	WILZIN
VIMIZIM	VOTUBIA	GLIOLAN	XAGRID
2013	VYNDAQEL	INCRELEX	2003
OPSUMIT	2010	INOVELON	CARBAGLU
BOSULIF	ARZERRA	REVLIMID	2002
DEFITELIO	TEPADINA	SIKLOS	TRACLEER
	VPRIV		ZAVESCA



Classification by ATC category

A- ALIMENTARY TRACT AND METABOLISM	PEDEA	ARZERRA	TEPADINA
CARBAGLU	TRACLEER	ATRIANCE	THALIDOMIDE
CERDELGA	VOLIBRIS	BOSULIF	CELGENE
CYSTADANE	D- DERMATOLOGICALS	CEPLENE	TORISEL
ELAPRASE	NEXOBRID	COMETRIQ	VIDAZA
KOLBAM	SCENESSE	CYRAMZA	VOTUBIA
KUVAN	G- GENITO URINARY SYSTEM AND SEX HORMONES	DACOGEN	XAGRID
MYOZYME	REVATIO	ESBRIET	XALUPRINE
NAGLAZYME	H- SYSTEMIC HORMONAL PREPARATIONS, EXCL. SEX HORMONES AND INSULINS	EVOLTRA	YONDELIS
ORFADIN	INCRELEX	GAZYVARO	N- NERVOUS SYSTEM
ORPHACOL	PLENADREN	GLIOLAN	DIACOMIT
PROCYSBI	SIGNIFOR	ICLUSIG	FIRDAPSE
REVESTIVE	J- GENERAL ANTIINFECTIVES FOR SYSTEMIC USE	IMBRUVICA	INOVELON
VIMIZIM	CAYSTON	IMNOVID	PEYONA
VPRIV	DELTYBA	JAKAVI	PRIALT
WILZIN	KETOCONAZOLE	LITAK	VYNDAQEL
ZAVESCA	PARA AMINOACID LUCANE	LYNPARZA	R- RESPIRATORY SYSTEM
B- BLOOD AND BLOOD FORMING ORGANS	SIRTURO	LYSODREN	BRONCHITOL
DEFITELIO	TOBI PODHALER	MEPACT	KALYDECO
NPLATE	L- ANTINEOPLASTIC AND IMMUNOMODULATING AGENTS	MOZOBIL	S- SENSORY ORGANS
C- CARDIOVASCULAR SYSTEM	ADCETRIS	NEXAVAR	HOLOCLAR
ADEMPAS		OFEV	V- VARIOUS
FIRAZYR		REVLIMID	EXJADE
GLYBERA		SIKLOS	SAVENE
OPSUMIT		SOLIRIS	ATC CODE NOT YET ASSIGNED
		SPRYCEL	SYLVANT
		TASIGNA	TRANSLARNA

Number of orphan medicinal products in Europe with European orphan designation and European market authorisation by ATC category



Classification by MA holder

ACTELION REGISTRATION LTD	PEYONA	LUCANE PHARMA	PHARMA MAR S.A.
OPSUMIT	CLINUVEL UK LIMITED	PARA AMINOACID LUCANE	YONDELIS
TRACLEER	SCENESSE	MEDA AB	PHARMAXIS PHARMACEUTICALS LTD
ZAVESCA	ELI LILLY NEDERLAND B.V.	CEPLENE	BRONCHITOL
ADDMEDICA	CYRAMZA	MEDAC GMBH	PTC THERAPEUTICS LTD
SIKLOS	ESAI LTD	GLIOLAN	TRANSLARNA
ADIENNE SRL	INOVELON	MEDIWOUND GERMANY GMBH	RAPTOR PHARMACEUTICALS EUROPE B.V.
TEPADINA	PRIALT	NEXOBRID	PROCYSBI
ALEXION EUROPE SAS	FGK REPRESENTATIVE GMBH	MERCK SERONO EUROPE LTD	ELAPRASE
SOLIRIS	KOLBAM	KUVAN	ROCHE REGISTRATION LIMITED
AMGEN EUROPE B.V.	GENTIUM SPA	NORGINE BV	GAZYVARO
NPLATE	DEFITELIO	SAVENE	SHIRE ORPHAN THERAPIES GMBH
ARIAD PHARMA LTD	GENZYME EUROPE B.V.	NOVA LABORATORIES LTD	FIRAZYR
ICLUSIG	CERDELGA	XALUPRINE	XAGRID
ASTRAZENECA AB	EVOLTRA	NOVARTIS EUROPHARM LTD	SHIRE PHARMACEUTICALS IRELAND LTD
LYNPARZA	MOZOBIL	EXJADE	VPRIV
BAYER PHARMA AG	MYOZYME	JAKAVI	SWEDISH ORPHAN BIOVITRUM INTERNATIONAL AB
ADEMPAS	GILEAD SCIENCES INTERNATIONAL LTD	SIGNIFOR	ORFADIN
NEXAVAR	CAYSTON	TASIGNA	TAKEDA A/S.
BIOCODEX	GLAXO GROUP LTD	TOBI PODHALER	ADCETRIS
DIACOMIT	ARZERRA	VOTUBIA	TAKEDA FRANCE SAS
BIOMARIN EUROPE LTD	ATRIANCE	NPS PHARMA HOLDINGS LIMITED	MEPACT
FIRDAPSE	VOLIBRIS	REVESTIVE	TMC PHARMA SERVICES LTD.
NAGLAZYME	INTERMUNE UK LTD	ORPHAN EUROPE S.A.R.L	COMETRIQ
VIMIZIM	ESBRIET	CARBAGLU	UNIQUE BIOPHARMA B.V.
BOEHRINGER INGELHEIM INTERNATIONAL GMBH	IPSEN PHARMA	CYSTADANE	GLYBERA
OFEV	INCRELEX	PEDEA	VERTEX PHARMACEUTICALS (U.K.) LTD
BRISTOL MYERS SQUIBB EEIG	JANSSEN-CILAG INTERNATIONAL NV	WILZIN	KALYDECO
SPRYCEL	DACOGEN	OTSUKA NOVEL PRODUCTS GMBH	VIROPHARMA SPRL
CELGENE EUROPE LTD	IMBRUVICA	DELTYBA	PLENADREN
IMNOVID	SIRTURO	PFIZER LTD	
REVLIMID	SYLVANT	BOSULIF	
THALIDOMIDE CELGENE	LABORATOIRE HRA PHARMA	REVATIO	
VIDAZA	KETOCONAZOLE HRA	TORISEL	
CHIESI FARMACEUTICI SPA	LABORATOIRES CTRS	VYNDAQEL	
HOLOCLAR	ORPHACOL		

PART 2:

List of medicinal products intended for rare diseases in Europe with European marketing authorisation* without orphan designation in Europe

Table of content

List of medicinal products intended for rare diseases in Europe with European marketing authorisation without orphan designation in Europe	21
Methodology	21
Classification by tradename	22
Classification by date of MA in descending order	40
Classification by ATC category	41
Classification by MA holder	42

Methodology

This part of the document provides a list of all medicinal products for rare diseases that have received a European marketing authorisation (MA) for one or more indication(s) of use for a rare disease, but which have not been granted a European orphan designation or for which the designation was removed/withdrawn.

These medicinal products may have been granted, or not, an orphan designation in another geographical area in the world. They appear in the DG Sanco list of medicinal products that have been granted a marketing authorisation : <http://ec.europa.eu/health/documents/community-register/html/alfregister.htm>

The first classification by tradename provides the name of active substance, the marketing authorisation (MA) "rare" indication, the date of MA and the MA holder.

Three additional lists propose another classification by :

- Date of MA in descending order;
- ATC category;
- MA holder.

For each list, tradenames are presented in alphabetical order.

Additional information can be found on each medicinal product in the tab "Orphan drugs" on the Orphanet website www.orpha.net or on the EMA website (European Medicines Agency) <http://www.ema.europa.eu>.

*European Community marketing authorisation under the centralised procedure

Classification by tradename

TRADENAME	ACTIVE SUBSTANCE	MARKETING AUTHORISATION INDICATION	MARKETING AUTHORISATION DATE (DD/MM/YYYY)	MARKETING AUTHORISATION HOLDER
ABRAXANE	Paclitaxel	In combination with gemcitabine, another cancer medicine which is currently the standard therapy in the first-line treatment of adults with metastatic pancreatic cancer .	11/01/2008	Celgene Europe Ltd
ADCIRCA	Tadalafil	In adults for the treatment of pulmonary arterial hypertension (PAH) classified as WHO functional class II and III, to improve exercise capacity. Efficacy has been shown in idiopathic PAH (IPAH) and in PAH related to collagen vascular disease.	01/10/2008	Eli Lilly Nederland B.V.
ADVATE	Octocog alpha	Treatment and prophylaxis of bleeding in patients with haemophilia A (congenital factor VIII deficiency). Advate does not contain von Willebrand Factor in pharmacologically effective quantities and is therefore not indicated in von Willebrand disease.	02/03/2004	Baxter AG
AFINITOR	Everolimus	*Treatment of unresectable or metastatic, well- or moderately-differentiated neuroendocrine tumours of pancreatic origin in adults with progressive disease. *Treatment of patients with advanced renal cell carcinoma , whose disease has progressed on or after treatment with VEGF-targeted therapy.	03/08/2009	Novartis Europharm Ltd
ALDURAZYME	Laronidase	Long-term enzyme replacement therapy in patients with a confirmed diagnosis of Mucopolysaccharidosis I (MPS I; a [alpha]-L-iduronidase deficiency) to treat the non-neurological manifestations of the disease.	10/06/2003	Genzyme Europe B.V.
ALIMTA	Pemetrexed	In combination with cisplatin for the treatment of chemotherapy naïve patients with unresectable malignant pleural mesothelioma .	20/09/2004	Eli Lilly Nederland B.V.
AMMONAPS	Sodium phenylbutyrate	Adjunctive therapy in the chronic management of urea cycle disorders , involving deficiencies of carbamyl phosphate synthetase, ornithine transcarbamylase, or argininosuccinate synthetase. It is indicated in all patients with <i>neonatal-onset</i> presentation (complete enzyme deficiencies, presenting within the first 28 days of life). It is also indicated in patients with <i>late-onset</i> disease (partial enzyme deficiencies, presenting after the first month of life) who have a history of hyperammonaemic encephalopathy.	08/12/1999	Swedish Orphan Biovitrum International AB
ATRYN	Antithrombin alpha	Prophylaxis of venous thromboembolism in surgery of adult patients with congenital antithrombin deficiency . Atryn is normally given in association with heparin or low molecular weight heparin.	28/07/2006	GTC Biotherapeutics UK Limited

TRADENAME	ACTIVE SUBSTANCE	MARKETING AUTHORISATION INDICATION	MARKETING AUTHORISATION DATE (DD/MM/YYYY)	MARKETING AUTHORISATION HOLDER
AVASTIN	Bevacizumab	<p>* In combination with interferon alfa-2a is indicated for first line treatment of adult patients with advanced and/or metastatic renal cell cancer.</p> <p>* In combination with carboplatin and paclitaxel, front-line treatment of adult patients with advanced (International Federation of Gynecology and Obstetrics (FIGO) stages III B, III C and IV) epithelial ovarian, fallopian tube, or primary peritoneal cancer.</p> <p>* In combination with carboplatin and gemcitabine, treatment of adult patients with first recurrence of platinum-sensitive epithelial ovarian, fallopian tube or primary peritoneal cancer who have not received prior therapy with bevacizumab or other VEGF inhibitors or VEGF receptor-targeted agents.</p> <p>*In combination with paclitaxel, topotecan, or pegylated liposomal doxorubicin treatment of adult patients with platinum-resistant recurrent epithelial ovarian, fallopian tube, or primary peritoneal cancer who received no more than two prior chemotherapy regimens and who have not received prior therapy with bevacizumab or other VEGF inhibitors or VEGF receptor-targeted agents.</p>	12/01/2005	Roche Registration Limited
BEMFOLA	Follitropin alfa	In adult men: stimulation of spermatogenesis in men who have congenital or acquired hypogonadotropic hypogonadism with concomitant human chorionic gonadotropin (hCG) therapy.	27/03/2014	Finox Biotech AG
BENEFIX	Recombinant coagulation Factor IX INN = Nonacog alpha	Treatment and prophylaxis of bleeding in patients with haemophilia B (congenital factor IX deficiency).	27/08/1997	Pfizer Ltd
BIOGRASTIM	Filgrastim	In patients, children or adults, with severe congenital, cyclic, or idiopathic neutropenia with an absolute neutrophil count (ANC) of $\leq 0.5 \times 10^9/L$, and a history of severe or recurrent infections, long term administration of Biograftim is indicated to increase neutrophil counts and to reduce the incidence and duration of infection-related events.	15/09/2008	AbZ-Pharma GmbH
BUCCOLAM	Midazolam	<p>Treatment of prolonged, acute, convulsive seizures in infants, toddlers, children and adolescents (from 3 months to < 18 years).</p> <p>Buccolam must only be used by parents/carers where the patient has been diagnosed to have epilepsy. For infants between 3-6 months of age treatment should be in a hospital setting where monitoring is possible and resuscitation equipment is available.</p>	05/09/2011	ViroPharma SPRL

TRADENAME	ACTIVE SUBSTANCE	MARKETING AUTHORISATION INDICATION	MARKETING AUTHORISATION DATE (DD/MM/YYYY)	MARKETING AUTHORISATION HOLDER
BUSILVEX	Busulfan (Intravenous use)	<p>* Followed by cyclophosphamide (BuCy2), conditioning treatment prior to conventional haematopoietic progenitor cell transplantation in adult patients when the combination is considered the best available option.</p> <p>* Following fludarabine (FB), conditioning treatment prior to haematopoietic progenitor cell transplantation in adult patients who are candidates for a reduced-intensity conditioning (RIC) regimen.</p> <p>* Followed by cyclophosphamide (BuCy4) or melphalan (BuMel), conditioning treatment prior to conventional haematopoietic progenitor cell transplantation in paediatric patients.</p>	09/07/2003	Pierre Fabre Médicament
CAELYX	Doxorubicin hydrochloride (pegylated liposomal)	<p>*For treatment of advanced ovarian cancer in women who have failed a first-line platinum-based chemotherapy regimen.</p> <p>*In combination with bortezomib for the treatment of progressive multiple myeloma in patients who have received at least one prior therapy and who have already undergone or are unsuitable for bone marrow transplant.</p> <p>*Treatment of AIDS-related Kaposi's sarcoma (KS) in patients with low CD4 counts (< 200 CD4 lymphocytes/mm³) and extensive mucocutaneous or visceral disease.</p>	21/06/1996	Janssen-Cilag International N.V.
CANCIDAS	Caspofungin	Treatment of invasive aspergillosis in adult or paediatric patients who are refractory to or intolerant of amphotericin B, lipid formulations of amphotericin B and/or itraconazole. Empirical therapy for presumed fungal infections (such as Candida or Aspergillus) in febrile, neutropaenic adult or paediatric patients.	24/10/2001	Merck Sharp & Dohme Ltd
CAPRELSA	Vandetanib	Treatment of aggressive and symptomatic medullary thyroid cancer (MTC) in patients with unresectable locally advanced or metastatic disease. For patients in whom Rearranged during Transfection (RET) mutation is not known or is negative, a possible lower benefit should be taken into account before individual treatment decision.	17/02/2012	AstraZeneca AB
CEPROTIN	Human protein C	<p>*In purpura fulminans and coumarin-induced skin necrosis in patients with severe congenital protein C deficiency.</p> <p>*Short-term prophylaxis in patients with severe congenital protein C deficiency : if surgery or invasive therapy is imminent, while initiating coumarin therapy, when coumarin therapy alone is not sufficient, when coumarin therapy is not feasible.</p>	16/07/2001	Baxter AG

TRADENAME	ACTIVE SUBSTANCE	MARKETING AUTHORISATION INDICATION	MARKETING AUTHORISATION DATE (DD/MM/YYYY)	MARKETING AUTHORISATION HOLDER
CEREZYME	Imiglucerase	Long-term enzyme replacement therapy in patients with a confirmed diagnosis of non-neuronopathic (Type 1) or chronic neuronopathic (Type 3) Gaucher disease and who exhibit clinically significant non-neurological manifestations of the disease, including one or more of the following conditions: anaemia after exclusion of other causes, such as iron deficiency; thrombocytopenia; bone disease after exclusion of other causes such as Vitamin D deficiency; hepatomegaly or splenomegaly.	17/11/1997	Genzyme Europe B.V.
CINRYZE	C1 inhibitor (human)	*Treatment and pre-procedure prevention of angioedema attacks in adults and adolescents with hereditary angioedema (HAE) . *Routine prevention of angioedema attacks in adults and adolescents with severe and recurrent attacks of hereditary angioedema (HAE) , who are intolerant to or insufficiently protected by oral prevention treatments, or patients who are inadequately managed with repeated acute treatment.	15/06/2011	ViroPharma SPRL
COLOBREATHE	Colistimethate sodium	Management of chronic pulmonary infections due to <i>Pseudomonas aeruginosa</i> in patients with cystic fibrosis (CF) aged 6 years and older.	13/02/2012	Forest Laboratories UK Ltd
CYSTAGON	Mercaptamine bitartrate	Treatment of proven nephropathic cystinosis . Cysteamine reduces cystine accumulation in some cells (e.g. leukocytes, muscle and liver cells) of nephropathic cystinosis patients and, when treatment is started early, it delays the development of renal failure.	23/06/1997	Orphan Europe S.A.R.L.
DEPOCYTE	Cytarabine	Intrathecal treatment of lymphomatous meningitis . In the majority of patients such treatment will be part of symptomatic palliation of the disease.	11/07/2001	Pacira Limited
DUKORAL	Vibrio cholerae and recombinant cholera toxin B-subunit	Active immunisation against disease caused by <i>Vibrio cholerae</i> serogroup O1 in adults and children from 2 years of age who will be visiting endemic/epidemic areas.	28/04/2004	Crucell Sweden AB
ENBREL	Etanercept	*Treatment of polyarthritis (rheumatoid-factorpositive or -negative) and extended oligoarthritis in children and adolescents from the age of 2 years who have had an inadequate response to, or who have proved intolerant of, methotrexate. *Treatment of psoriatic arthritis in adolescents from the age of 12 years who have had an inadequate response to, or who have proved intolerant of, methotrexate. *Treatment of enthesitis-related arthritis in adolescents from the age of 12 years who have had an inadequate response to, or who have proved intolerant of, conventional therapy. Enbrel has not been studied in children aged less than 2 years.	03/02/2000	Pfizer Ltd

TRADENAME	ACTIVE SUBSTANCE	MARKETING AUTHORISATION INDICATION	MARKETING AUTHORISATION DATE (DD/MM/YYYY)	MARKETING AUTHORISATION HOLDER
ERBITUX	Cetuximab	Treatment of patients with squamous cell cancer of the head and neck : - in combination with radiation therapy for locally advanced disease, - in combination with platinum-based chemotherapy for recurrent and/or metastatic disease.	29/06/2004	Merck KGaA
ERIVEDGE	Vismodegib	Treatment of adult patients with: - symptomatic metastatic basal cell carcinoma , - locally advanced basal cell carcinoma inappropriate for surgery or radiotherapy	12/07/2013	Roche Registration Limited
EURARTESIM	Piperaquine tetraphosphate / dihydroartemisinin	Treatment of uncomplicated Plasmodium falciparum malaria in adults, children and infants 6 months and over and weighing 5 kg or more. Consideration should be given to official guidance on the appropriate use of antimalarial agents.	27/10/2011	Sigma-Tau Industrie Farmaceutiche Riunite S.p.A
FABRAZYME	Recombinant human alpha-galactosidase INN = Agalsidase beta	Long-term enzyme replacement therapy in patients with a confirmed diagnosis of Fabry disease (alpha-galactosidase A deficiency).	03/08/2001	Genzyme Europe B.V.
FERRIPROX	Deferiprone	Treatment of iron overload in patients with thalassaemia major when deferoxamine therapy is contraindicated or inadequate.	25/08/1999	Apotex Europe B.V.
FILGRASTIM HEXAL	Filgrastim	In patients, children or adults, with severe congenital, cyclic, or idiopathic neutropenia with an absolute neutrophil count (ANC) of $\leq 0.5 \times 10^9/L$, and a history of severe or recurrent infections.	06/02/2009	Hexal AG
FLEBOGAMMA DIF	Human normal immunoglobulin	* Replacement therapy in adults, and children and adolescents (2-18 years) in: - Primary immunodeficiency (PID) syndromes with impaired antibody production. - Hypogammaglobulinaemia and recurrent bacterial infections in patients with chronic lymphocytic leukaemia, in whom prophylactic antibiotics have failed. - Hypogammaglobulinaemia and recurrent bacterial infections in plateau phase multiple myeloma patients who have failed to respond to pneumococcal immunisation. - Hypogammaglobulinaemia in patients after allogeneic haematopoietic stem cell transplantation (HSCT). * Immunomodulation in adults, and children and adolescents (2-18 years) in: - Primary immune thrombocytopenia (ITP), in patients at high risk of bleeding or prior to surgery to correct the platelet count. - Guillain-Barré syndrome , - Kawasaki disease .	23/07/2007	Instituto Grifols S.A.

TRADENAME	ACTIVE SUBSTANCE	MARKETING AUTHORISATION INDICATION	MARKETING AUTHORISATION DATE (DD/MM/YYYY)	MARKETING AUTHORISATION HOLDER
GLIVEC	Imatinib mesilate	<p>* Treatment of :</p> <ul style="list-style-type: none"> - adult and paediatric patients with newly diagnosed Philadelphia chromosome (bcr-abl) positive (Ph+) chronic myeloid leukaemia (CML) for whom bone marrow transplantation is not considered as the first line of treatment; - adult and paediatric patients with Ph+ CML in chronic phase after failure of interferon-alpha therapy, or in accelerated phase or blast crisis; - adult and paediatric patients with newly diagnosed Philadelphia chromosome positive acute lymphoblastic leukaemia (Ph+ ALL) integrated with chemotherapy; - adult patients with relapsed or refractory Ph+ ALL as monotherapy; - adult patients with myelodysplastic/myeloproliferative diseases (MDS/MPD) associated with platelet-derived growth factor receptor (PDGFR) gene re-arrangements; - adult patients with advanced hypereosinophilic syndrome (HES) and/or chronic eosinophilic leukaemia (CEL) with FIP1L1-PDGFRα rearrangement; - adult patients with Kit (CD 117) positive unresectable and/or metastatic malignant gastrointestinal stromal tumours (GIST); - adjuvant treatment of adult patients who are at significant risk of relapse following resection of Kit (CD117)-positive GIST. Patients who have a low or very low risk of recurrence should not receive adjuvant treatment; - adult patients with unresectable dermatofibrosarcoma protuberans (DFSP) and adult patients with recurrent and/or metastatic DFSP who are not eligible for surgery. 	07/11/2001	Novartis Europharm Ltd
GONAL-F	Recombinant human follicle stimulating hormone INN = Follitropin alpha	Stimulation of spermatogenesis in men who have congenital or acquired hypogonadotrophic hypogonadism with concomitant human Chorionic Gonadotrophin (hCG) therapy.	20/10/1995	Merck Serono Europe Ltd
GRASTOFIL	Filgrastim	In adult patients with severe congenital, cyclic, or idiopathic neutropenia with an absolute neutrophil count (ANC) of $< 0.5 \times 10^9/L$, and a history of severe or recurrent infections, long term administration of Grastofil is indicated to increase neutrophil counts and to reduce the incidence and duration of infection-related events.	18/10/2013	Apotex Europe B.V.
HELIXATE NEXGEN	Octocog alpha	Treatment and prophylaxis of bleeding in patients with haemophilia A (congenital factor VIII deficiency).	04/08/2000	Bayer Pharma AG

TRADENAME	ACTIVE SUBSTANCE	MARKETING AUTHORISATION INDICATION	MARKETING AUTHORISATION DATE (DD/MM/YYYY)	MARKETING AUTHORISATION HOLDER
HEMANGIOL	Propranolol hydrochloride (INN = propranolol)	Treatment of proliferating infantile haemangioma requiring systemic therapy: - life- or function-threatening haemangioma, - ulcerated haemangioma with pain and/or lack of response to simple wound care measures, - haemangioma with a risk of permanent scars or disfigurement. It is to be initiated in infants aged 5 weeks to 5 months.	23/04/2014	Pierre Fabre Dermatologie
HERCEPTIN	Trastuzumab	*In combination with capecitabine or 5-fluorouracil and cisplatin, treatment of patients with HER2-positive metastatic adenocarcinoma of the stomach or gastroesophageal junction who have not received prior anticancer treatment for their metastatic disease. *Herceptin should only be used in patients with metastatic gastric cancer whose tumours have HER2 overexpression as defined by IHC2+ and a confirmatory SISH or FISH result, or by an IHC3+ result. Accurate and validated assay methods should be used.	28/08/2000	Roche Registration Limited
HIZENTRA	Human normal immunoglobulin (SCIg)	* Replacement therapy in adults and children in primary immunodeficiency syndromes such as: - congenital agammaglobulinaemia and hypogammaglobulinaemia , - common variable immunodeficiency , - severe combined immunodeficiency , - IgG subclass deficiencies with recurrent infections. * Replacement therapy in myeloma or chronic lymphocytic leukaemia with severe secondary hypogammaglobulinaemia and recurrent infections.	14/04/2011	CSL Behring GmbH
HUMIRA	Adalimumab	*In combination with methotrexate is indicated for the treatment of active polyarticular juvenile idiopathic arthritis , in children and adolescents aged 2 to 17 years who have had an inadequate response to one or more disease-modifying antirheumatic drugs (DMARDs). *As monotherapy in case of intolerance to methotrexate or when continued treatment with methotrexate is inappropriate Humira has not been studied in children aged less than 2 years.	08/09/2003	Abbvie Ltd.

TRADENAME	ACTIVE SUBSTANCE	MARKETING AUTHORISATION INDICATION	MARKETING AUTHORISATION DATE (DD/MM/YYYY)	MARKETING AUTHORISATION HOLDER
HYCAMPIN	Topotecan	<p>HYCAMPIN powder for concentrate for solution for infusion:</p> <p>*Monotherapy for the treatment of:</p> <ul style="list-style-type: none"> - patients with metastatic carcinoma of the ovary after failure of first-line or subsequent therapy. - patients with relapsed small cell lung cancer (SCLC) for whom re-treatment with the first-line regimen is not considered appropriate. <p>*In combination with cisplatin for patients with carcinoma of the cervix recurrent after radiotherapy and for patients with Stage IVB disease. Patients with prior exposure to cisplatin require a sustained treatment free interval to justify treatment with the combination.</p> <p>HYCAMPIN capsules:</p> <p>As monotherapy for the treatment of adult patients with relapsed small cell lung cancer (SCLC) for whom re-treatment with the first-line regimen is not considered appropriate.</p>	12/11/1996	SmithKline Beecham Ltd
HYQVIA	Human normal immunoglobulin	<p>* Replacement therapy in adults (> 18 years) in primary immunodeficiency syndromes such as:</p> <ul style="list-style-type: none"> - congenital agammaglobulinaemia and hypogammaglobulinaemia - common variable immunodeficiency - severe combined immunodeficiency - IgG subclass deficiencies with recurrent infections. <p>* Replacement therapy in adults (> 18 years) in myeloma or chronic lymphocytic leukaemia with severe secondary hypogammaglobulinaemia and recurrent infections.</p>	16/05/2013	Baxter Innovations GmbH
ILARIS	Canakinumab	<p>*Treatment of Cryopyrin-Associated Periodic Syndromes (CAPS) in adults, adolescents and children aged 2 years and older with body weight of 7,5 kg or above, including:</p> <ul style="list-style-type: none"> -Muckle-Wells Syndrome (MWS), - Neonatal-Onset Multisystem Inflammatory Disease (NOMID) / Chronic Infantile Neurological, Cutaneous, Articular Syndrome (CINCA), -Severe forms of Familial Cold Autoinflammatory Syndrome (FCAS) / Familial Cold Urticaria (FCU) presenting with signs and symptoms beyond cold-induced urticarial skin rash. <p>*Treatment of active Systemic Juvenile Idiopathic Arthritis (SJIA) in patients aged 2 years and older who have responded inadequately to previous therapy with non-steroidal anti-inflammatory drugs (NSAIDs) and systemic corticosteroids. Ilaris can be given as monotherapy or in combination with methotrexate.</p>	23/10/2009	Novartis Europharm Ltd

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INLYTA	Axitinib	For the treatment of adult patients with advanced renal cell carcinoma (RCC) after failure of prior treatment with sunitinib or a cytokine.	03/09/2012	Pfizer Ltd.
INOMAX	Nitric oxide	In conjunction with ventilatory support and other appropriate active substances: - for the treatment of newborn infants ≥ 34 weeks gestation with hypoxic respiratory failure associated with clinical or echocardiographic evidence of pulmonary hypertension , in order to improve oxygenation and to reduce the need for extracorporeal membrane oxygenation. - as part of the treatment of peri- and post-operative pulmonary hypertension in adults and newborn infants, infants and toddlers, children and adolescents, ages 0-17 years in conjunction to heart surgery, in order to selectively decrease pulmonary arterial pressure and improve right ventricular function and oxygenation.	01/08/2001	Linde Health-care AB
INTRONA	Interferon alpha-2b	*Treatment of patients with hairy cell leukaemia Monotherapy treatment of adults with Philadelphia chromosome or bcr/abl translocation positive chronic myelogenous leukaemia . Combination therapy with cytarabine administered during the first 12 months of treatment has been demonstrated to significantly increase the rate of major cytogenetic responses and to significantly prolong the overall survival at three years when compared to interferon alfa-2b monotherapy *Treatment of patients with multiple myeloma , as maintenance therapy in patients who have achieved objective remission (more than 50 % reduction in myeloma protein) following initial induction chemotherapy. *Treatment of high tumour burden follicular lymphoma as adjunct to appropriate combination induction chemotherapy such as a CHOP-like regimen Treatment of carcinoid tumours with lymph node or liver metastases and with "carcinoid syndrome".	09/03/2000	Merck Sharp & Dohme Limited
IXIARO	Japanese Encephalitis Vaccine (inactivated, adsorbed)	For active immunization against Japanese encephalitis for adults, adolescents, children and infants aged 2 months and older.	31/03/2009	Valneva Austria GmbH

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KEPPRA	Levetiracetam	<p>*As monotherapy in the treatment of partial onset seizures with or without secondary generalisation in patients from 16 years of age with newly diagnosed epilepsy.</p> <p>*As adjunctive therapy in the treatment of partial onset seizures with or without secondary generalisation in adults, children and infants from 1 month of age with epilepsy ; in the treatment of myoclonic seizures in adults and adolescents from 12 years of age with Juvenile Myoclonic Epilepsy ; in the treatment of primary generalised tonic-clonic seizures in adults and adolescents from 12 years of age with Idiopathic Generalised Epilepsy.</p>	29/09/2000	UCB Pharma SA
KINERET	Anakinra	<p>Kineret (100 mg/0.67 ml solution for injection) is indicated in adults, adolescents, children and infants aged 8 months and older with a body weight of 10 kg or above for the treatment of Cryopyrin-Associated Periodic Syndromes (CAPS), including:</p> <ul style="list-style-type: none"> - Neonatal-Onset Multisystem Inflammatory Disease (NOMID) / Chronic Infantile Neurological, Cutaneous, Articular Syndrome (CINCA), - Muckle-Wells Syndrome (MWS), - Familial Cold Autoinflammatory Syndrome (FCAS). 	08/03/2002	Swedish Orphan Biovitrum AB
KIOVIG	Human normal immunoglobulin	<p>*Replacement therapy in adults, and children and adolescents (0-18 years) in:</p> <ul style="list-style-type: none"> - Primary immunodeficiency syndromes with impaired antibody production, - Hypogammaglobulinaemia and recurrent bacterial infections in patients with chronic lymphocytic leukaemia, in whom prophylactic antibiotics have failed, - Hypogammaglobulinaemia and recurrent bacterial infections in plateau phase multiple myeloma patients who have failed to respond to pneumococcal immunisation, - Hypogammaglobulinaemia in patients after allogeneic haematopoietic stem cell transplantation (HSCT). <p>*Immunomodulation in adults, and children and adolescents (0-18 years) in:</p> <ul style="list-style-type: none"> - Primary immune thrombocytopenia (ITP), in patients at high risk of bleeding or prior to surgery to correct the platelet count, - Guillain Barré syndrome, - Kawasaki disease, - Multifocal Motor Neuropathy (MMN). 	19/01/2006	Baxter AG
KOGENATE BAYER	Octocog alpha	Treatment and prophylaxis of bleeding in patients with haemophilia A (congenital factor VIII deficiency).	04/08/2000	Bayer Pharma AG

TRADENAME	ACTIVE SUBSTANCE	MARKETING AUTHORISATION INDICATION	MARKETING AUTHORISATION DATE (DD/MM/YYYY)	MARKETING AUTHORISATION HOLDER
LITAK	Cladribine (sub-cutaneous use)	Treatment of hairy cell leukaemia .	14/04/2004	Lipomed GmbH
LOJUXTA	Lomitapide	Adjunct to a low-fat diet and other lipid-lowering medicinal products with or without low density lipoprotein (LDL) apheresis in adult patients with homozygous familial hypercholesterolaemia (HoFH) . Genetic confirmation of HoFH should be obtained whenever possible. Other forms of primary hyperlipoproteinemia and secondary causes of hypercholesterolaemia (e.g., nephrotic syndrome, hypothyroidism) must be excluded.	31/07/2013	Aegerion Pharmaceuticals SAS
LYSODREN	Mitotane	Symptomatic treatment of advanced (unresectable, metastatic or relapsed) adrenal cortical carcinoma .	28/04/2004	Laboratoire HRA Pharma
MABTHERA	Rituximab	<p>* Non-Hodgkin's lymphoma (NHL)</p> <ul style="list-style-type: none"> - Treatment of previously untreated patients with stage III-IV follicular lymphoma in combination with chemotherapy. - As maintenance therapy, the treatment of follicular lymphoma patients responding to induction therapy. - In monotherapy, treatment of patients with stage III-IV follicular lymphoma who are chemoresistant or are in their second or subsequent relapse after chemotherapy. - Treatment of patients with CD20 positive diffuse large B cell non- Hodgkin's lymphoma in combination with CHOP (cyclophosphamide, doxorubicin, vincristine, prednisolone) chemotherapy. <p>* In combination with chemotherapy, treatment of patients with previously untreated and relapsed/refractory chronic lymphocytic leukaemia. Only limited data are available on efficacy and safety for patients previously treated with monoclonal antibodies including MabThera or patients refractory to previous MabThera plus chemotherapy.</p> <p>* Granulomatosis with polyangiitis and Microscopic polyangiitis</p> <p>In combination with glucocorticoids, is indicated for the induction of remission in adult patients with severe, active Granulomatosis with polyangiitis (Wegener's) (GPA) and Microscopic polyangiitis (MPA).</p>	02/06/1998	Roche Registration Limited
NIVESTIM	Filgrastim	In patients, children or adults, with severe congenital, cyclic, or idiopathic neutropenia with an absolute neutrophil count (ANC) of $\leq 0.5 \times 10^9/L$, and a history of severe or recurrent infections.	08/06/2010	Hospira UK Ltd
NONAFACT	Human coagulation factor IX	Treatment and prophylaxis of bleeding in patients with haemophilia B (congenital factor IX deficiency) .	03/07/2001	Sanquin
NOVOEIGHT	Turoctocog alpha	Treatment and prophylaxis of bleeding in patients with haemophilia A (congenital factor VIII deficiency) . NovoEight can be used for all age groups.	13/11/2013	Novo Nordisk A/S

TRADENAME	ACTIVE SUBSTANCE	MARKETING AUTHORISATION INDICATION	MARKETING AUTHORISATION DATE (DD/MM/YYYY)	MARKETING AUTHORISATION HOLDER
NOVOSEVEN	Human recombinant coagulation Factor VIIa INN = Eptacog alpha (activated)	Treatment of bleeding episodes and for the prevention of bleeding in those undergoing surgery or invasive procedures in the following patient groups : in patients with congenital haemophilia with inhibitors to coagulation factors VIII or IX > 5 BU; in patients with congenital haemophilia who are expected to have a high anamnestic response to factor VIII or factor IX administration; in patients with acquired haemophilia ; in patients with congenital FVII deficiency ; in patients with Glanzmann's thrombasthenia with antibodies to GP IIb - IIIa and/or HLA, and with past or present refractoriness to platelet transfusions.	23/02/1996	Novo Nordisk A/S
NOVOTHIRTEEN	Catridecacog	Long term prophylactic treatment of bleeding in in adult and paediatric patients with congenital factor XIII A-subunit deficiency	03/09/2012	Novo Nordisk A/S
NOXAFIL	Posaconazole	<p>*Treatment of the fungal infections in adults:</p> <ul style="list-style-type: none"> - Invasive aspergillosis in patients with disease that is refractory to amphotericin B or itraconazole or in patients who are intolerant of these medicinal products, - Fusariosis in patients with disease that is refractory to amphotericin B or in patients who are intolerant of amphotericin B.- Chromoblastomycosis and mycetoma in patients with disease that is refractory to itraconazole or in patients who are intolerant of itraconazole, - Coccidioidomycosis in patients with disease that is refractory to amphotericin B, itraconazole or fluconazole or in patients who are intolerant of these medicinal products. <p>*Prophylaxis of invasive fungal infections in :</p> <ul style="list-style-type: none"> - Patients receiving remission-induction chemotherapy for acute myelogenous leukemia (AML) or myelodysplastic syndromes (MDS) expected to result in prolonged neutropenia and who are at high risk of developing invasive fungal infections, - Hematopoietic stem cell transplant (HSCT) recipients who are undergoing high-dose immunosuppressive therapy for graft versus host disease and who are at high risk of developing invasive fungal infections. 	25/10/2005	Merck Sharp & Dohme Ltd.
NUEDEXTA	Dextromethorphan hydrobromide / Quinidine INN = Dextromethorphan hydrobromide / Quinidine sulfate	For the symptomatic treatment of pseudobulbar affect (PBA) in adults. Efficacy has been studied in patients with underlying Amyotrophic Lateral Sclerosis .	24/06/2013	Jenson Pharmaceutical Services Limited

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OMNITROPE	Somatropin	<p>* Infants, children and adolescents:</p> <ul style="list-style-type: none"> - Growth disturbance due to insufficient secretion of growth hormone (GH), - Growth disturbance associated with Turner syndrome, - Growth disturbance (current height standard deviation score (SDS) < -2,5 and parental adjusted SDS < -1) in short children/adolescents born small for gestational age (SGA), with a birth weight and/or length below -2 standard deviation (SD), who failed to show catch-up growth (height velocity (HV) SDS < 0 during the last year) by 4 years of age or later, - Prader-Willi syndrome (PWS), for improvement of growth and body composition. The diagnosis of PWS should be confirmed by appropriate genetic testing. <p>* Adults:</p> <ul style="list-style-type: none"> - Replacement therapy in adults with pronounced growth hormone deficiency. Patients with severe growth hormone deficiency in adulthood are defined as patients with known hypothalamic pituitary pathology and at least one known deficiency of a pituitary hormone not being prolactin. These patients should undergo a single dynamic test in order to diagnose or exclude a growth hormone deficiency. In patients with childhood onset isolated GH deficiency (no evidence of hypothalamic-pituitary disease or cranial irradiation), two dynamic tests should be recommended, except for those having low IGF-I concentrations (SDS < -2) who may be considered for one test. The cut-off point of the dynamic test should be strict. 	12/04/2006	Sandoz GmbH
ORENCIA	Abatacept	In combination with methotrexate, for the treatment of moderate to severe active polyarticular juvenile idiopathic arthritis (JIA) in paediatric patients 6 years of age and older who have had an insufficient response to other DMARDs including at least one TNF inhibitor.	21/05/2007	Bristol-Myers Squibb Pharma EEIG
OVALEAP	Follitropin alpha	In adult men : Ovaleap is indicated for the stimulation of spermatogenesis in men who have congenital or acquired hypogonadotropic hypogonadism with concomitant human chorionic gonadotropin (hCG) therapy.	27/09/2013	Teva Pharmaceuticals Europe B.V.
OZURDEX	Dexamethasone	For the treatment of adult patients with inflammation of the posterior segment of the eye presenting as non-infectious uveitis .	27/07/2010	Allergan Pharmaceuticals Ireland
PANRETIN	Alitretinoin	Topical treatment of cutaneous lesions in patients with AIDS-related Kaposi's sarcoma (KS) : when lesions are not ulcerated or lymphoedematous, and treatment of visceral KS is not required, and when lesions are not responding to systemic antiretroviral therapy, and radiotherapy or chemotherapy are not appropriate.	11/10/2000	Eisai Ltd

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PIXUVRI	Pixantrone dimaleate	As monotherapy for the treatment of adult patients with multiply relapsed or refractory aggressive non-Hodgkin B cell lymphomas (NHL) . The benefit of pixantrone treatment has not been established in patients when used as fifth line or greater chemotherapy in patients who are refractory to last therapy.	10/05/2012	CTI Life Sciences Ltd
PRIVIGEN	Human normal immunoglobulin (IVIg)	<p>* Replacement therapy in adults, and children and adolescents (0-18 years) in:</p> <ul style="list-style-type: none"> - Primary immunodeficiency (PID) syndromes with impaired antibody production, - Hypogammaglobulinaemia and recurrent bacterial infections in patients with chronic lymphocytic leukaemia, in whom prophylactic antibiotics have failed, - Hypogammaglobulinaemia and recurrent bacterial infections in plateau phase multiple myeloma patients who have failed to respond to pneumococcal immunization, - Hypogammaglobulinaemia in patients after allogeneic haematopoietic stem cell transplantation (HSCT), <p>* Immunomodulation in adults, and children and adolescents (0-18 years) in:</p> <ul style="list-style-type: none"> - Primary immune thrombocytopenia (ITP), in patients at high risk of bleeding or prior to surgery to correct the platelet count, - Guillain-Barré syndrome, - Kawasaki disease, - Chronic inflammatory demyelinating polyneuropathy (CIDP). Only limited experience is available of use of intravenous immunoglobulins in children with CIDP. 	25/04/2008	CSL Behring GmbH
PUREGON	Follitropin beta	Treatment of deficient spermatogenesis due to hypogonadotrophic hypogonadism .	03/05/1996	Merck Sharp & Dohme Limited
RATIOGRASTIM	Filgrastim	In patients, children or adults, with severe congenital, cyclic, or idiopathic neutropenia with an absolute neutrophil count (ANC) of $\leq 0.5 \times 10^9/L$, and a history of severe or recurrent infections.	15/09/2008	Ratiopharm GmbH
REFACTO AF	Moroctocog alpha	Treatment and prophylaxis of bleeding in patients with haemophilia A (congenital factor VIII deficiency) in adults and children of all ages, including newborns.	13/04/1999	Pfizer Ltd
REPLAGAL	Agalsidase alfa	Long-term enzyme replacement therapy in patients with a confirmed diagnosis of Fabry Disease (alpha-galactosidase A deficiency)	03/08/2001	Shire Human Genetic Therapies AB
REVOLADE	Eltrombopag	For adult chronic immune (idiopathic) thrombocytopenic purpura (ITP) splenectomised patients who are refractory to other treatments (e.g. corticosteroids, immunoglobulins). Revolade may be considered as second line treatment for adult non-splenectomised patients where surgery is contraindicated.	11/03/2010	Glaxo-SmithKline Trading Services Limited

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RILUTEK	Riluzole	To extend life or the time to mechanical ventilation for patients with amyotrophic lateral sclerosis (ALS) .	10/06/1996	Aventis Pharma S.A.
ROACTEMRA	Tocilizumab	Treatment of active systemic juvenile idiopathic arthritis (sJIA) in patients 2 years of age and older, who have responded inadequately to previous therapy with NSAIDs and systemic corticosteroids. RoActemra can be given as monotherapy (in case of intolerance to MTX or where treatment with MTX is inappropriate) or in combination with MTX.	16/01/2009	Roche Registration Ltd
RUCONEST	Conestat alfa	Treatment of acute angioedema attacks in adults with hereditary angioedema (HAE) due to C1 esterase inhibitor deficiency .	28/10/2010	Pharming Group N.V.
SAMSCA	Tolvaptan	Treatment of adult patients with hyponatraemia secondary to syndrome of inappropriate antidiuretic hormone secretion (SIADH) .	03/08/2009	Otsuka Pharmaceutical Europe Ltd
SOMAVERT	Pegvisomant	Treatment of patients with acromegaly who have had an inadequate response to surgery and/or radiation therapy and in whom an appropriate medical treatment with somatostatin analogues did not normalize IGF-I concentrations or was not tolerate.	13/11/2002	Pfizer Ltd
STAYVEER	Bosentan monohydrate	* For the treatment of pulmonary arterial hypertension (PAH) to improve exercise capacity and symptoms in patients with WHO functional class III. Efficacy has been shown in: - Primary (idiopathic and heritable) PAH ; - PAH secondary to scleroderma without significant interstitial pulmonary disease ; - PAH associated with congenital systemic-to-pulmonary shunts and Eisenmenger's physiology. Some improvements have also been shown in patients with PAH WHO functional class II. * To reduce the number of new digital ulcers in patients with systemic sclerosis and ongoing digital ulcer disease.	24/06/2013	Marklas Nederland BV
SUTENT	Sunitinib	*Treatment of unresectable and/or metastatic malignant gastrointestinal stromal tumour (GIST) after failure of imatinib mesilate treatment due to resistance or intolerance. *Treatment of advanced/metastatic renal cell carcinoma (MRCC) in adults. *Treatment of unresectable or metastatic, well-differentiated pancreatic neuroendocrine tumours (pNET) with disease progression in adults Experience with SUTENT as first-line treatment is limited.	19/07/2006	Pfizer Limited
TARCEVA	Erlotinib	In combination with gemcitabine, for the treatment of patients with metastatic pancreatic cancer . When prescribing Tarceva, factors associated with prolonged survival should be taken into account. No survival advantage could be shown for patients with locally advanced disease.	19/09/2005	Roche Registration Limited

TRADENAME	ACTIVE SUBSTANCE	MARKETING AUTHORISATION INDICATION	MARKETING AUTHORISATION DATE (DD/MM/YYYY)	MARKETING AUTHORISATION HOLDER
TARGRETIN	Bexarotene	Treatment of skin manifestations of advanced stage cutaneous T-cell lymphoma (CTCL) patients refractory to at least one systemic treatment.	29/03/2001	Eisai Ltd
TAXOTERE	Docetaxel	*In combination with cisplatin and 5-fluorouracil for the treatment of patients with metastatic gastric adenocarcinoma , including adenocarcinoma of the gastroesophageal junction, who have not received prior chemotherapy for metastatic disease *In combination with cisplatin and 5-fluorouracil for the induction treatment of patients with locally advanced squamous cell carcinoma of the head and neck .	27/11/1995	Aventis Pharma S.A.
TEMODAL	Temozolomide	*Treatment of adult patients with newly-diagnosed glioblastoma multiforme concomitantly with radiotherapy (RT) and subsequently as monotherapy treatment. *Treatment of children from the age of three years, adolescents and adult patients with malignant glioma , such as glioblastoma multiforme or anaplastic astrocytoma , showing recurrence or progression after standard therapy.	26/01/1999	Merck Sharp & Dohme Ltd.
TEVAGRASTIM	Filgrastim	In patients, children or adults, with severe congenital, cyclic, or idiopathic neutropenia with an absolute neutrophil count (ANC) of $\leq 0.5 \times 10^9/L$, and a history of severe or recurrent infections.	15/09/2008	Teva GmbH
TEYSUNO	Tegafur/Gimeracil /Oteracil	In adults for the treatment of advanced gastric cancer when given in combination with cisplatin.	14/03/2011	Nordic Group BV
THYROGEN	Thyrotropin alfa	For use with serum thyroglobulin (Tg) testing with or without radioiodine imaging for the detection of thyroid remnants and well-differentiated thyroid cancer in post-thyroidectomy patients maintained on hormone suppression therapy (THST). Low-risk patients with well-differentiated thyroid carcinoma who have undetectable serum Tg levels on THST and no rh (recombinant human) TSH-stimulated increase of Tg levels may be followed-up by assaying rh TSH-stimulated Tg levels. For pre-therapeutic stimulation in combination with a range of 30 mCi (1.1 GBq) to 100 mCi (3.7 GBq) radioiodine for ablation of thyroid tissue remnants in patients who have undergone a near-total or total thyroidectomy for well-differentiated thyroid cancer and who do not have evidence of distant metastatic thyroid cancer.	09/03/2000	Genzyme Europe B.V.

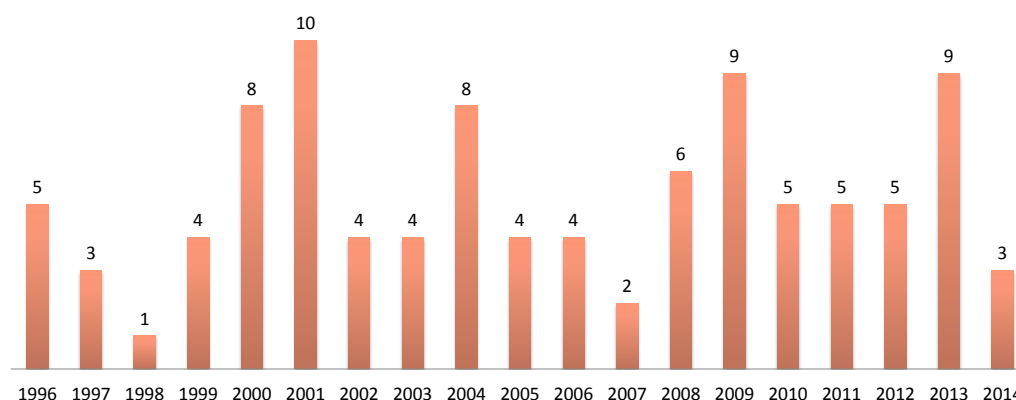
TRADENAME	ACTIVE SUBSTANCE	MARKETING AUTHORISATION INDICATION	MARKETING AUTHORISATION DATE (DD/MM/YYYY)	MARKETING AUTHORISATION HOLDER
TRISENOX	Arsenic trioxide	Induction of remission and consolidation in adult patients with relapsed/refractory acute promyelocytic leukaemia (APL), characterised by the presence of the t(15;17) translocation and/or the presence of the Pro-Myelocytic Leukaemia/Retinoic-Acid Receptor-alpha (PML/RAR-alpha) gene. Previous treatment should have included a retinoid and chemotherapy.	05/03/2002	Teva Pharma B.V.
VEDROP	Tocofersolan	Indicated in vitamin E deficiency due to digestive malabsorption in paediatric patients with congenital chronic cholestasis or hereditary chronic cholestasis , from birth (full term newborns) up to 18 years of age.	24/07/2009	Orphan Europe S.A.R.L
VELCADE	Bortezomib	<p>* As monotherapy is indicated for the treatment of adult patients with progressive multiple myeloma who have received at least 1 prior therapy and who have already undergone or are unsuitable for bone marrow transplantation.</p> <p>* In combination with melphalan and prednisone is indicated for the treatment of adult patients with previously untreated multiple myeloma who are not eligible for high-dose chemotherapy with bone marrow transplant.</p> <p>* In combination with dexamethasone, or with dexamethasone and thalidomide, is indicated for the induction treatment of adult patients with previously untreated multiple myeloma who are eligible for high-dose chemotherapy with haematopoietic stem cell transplantation.</p>	26/04/2004	Janssen-Cilag International NV
VENTAVIS	Iloprost	Treatment of patients with primary pulmonary hypertension , classified as NYHA functional class III, to improve exercise capacity and symptoms.	16/09/2003	Bayer Pharma AG
VFEND	Voriconazole	<p>In adults and children aged 2 years and above as follows:</p> <ul style="list-style-type: none"> - treatment of invasive aspergillosis. - treatment of serious fungal infections caused by <i>Scedosporium spp.</i> and <i>Fusarium spp.</i> <p>Vfend should be administered primarily to patients with progressive, possibly life-threatening infections.</p>	19/03/2002	Pfizer Limited
VONCENTO	Human coagulation factor VIII / Von Willebrand factor	<p>* Treatment of haemorrhage or prevention and treatment of surgical bleeding in patients with von Willebrand disease (VWD), when desmopressin (DDAVP) treatment alone is ineffective or contraindicated.</p> <p>* Prophylaxis and treatment of bleeding in patients with haemophilia A (congenital FVIII deficiency).</p>	12/08/2013	CSL Behring GmbH

TRADENAME	ACTIVE SUBSTANCE	MARKETING AUTHORISATION INDICATION	MARKETING AUTHORISATION DATE (DD/MM/YYYY)	MARKETING AUTHORISATION HOLDER
VOTRIENT	Pazopanib	<p>*In adults for the first-line treatment of advanced renal cell carcinoma (RCC) and for patients who have received prior cytokine therapy for advanced disease.</p> <p>*For the treatment of adult patients with selective subtypes of advanced soft-tissue sarcoma (STS) who have received prior chemotherapy for metastatic disease or who have progressed within 12 months after (neo)-adjuvant therapy. Efficacy and safety have only been established in certain STS histological tumour subtypes.</p>	14/06/2010	Glaxo Group Ltd
XELODA	Capecitabine	First-line treatment of advanced gastric cancer in combination with a platinum-based regimen	02/02/2001	Roche Registration Limited
XYREM	Sodium oxybate	Treatment of narcolepsy with cataplexy in adult patients.	13/10/2005	UCB Pharma Ltd
ZARZIO	Filgrastim	In children and adults with severe congenital, cyclic, or idiopathic neutropenia with an absolute neutrophil count (ANC) of $\leq 0.5 \times 10^9/L$, and a history of severe or recurrent infections, long term administration of filgrastim is indicated to increase neutrophil counts and to reduce the incidence and duration of infection-related events.	06/02/2009	Sandoz GmbH
ZEVALIN	Ibritumomab tiuxetan	<p>*Consolidation therapy after remission induction in previously untreated patients with follicular lymphoma.</p> <p>*Treatment of adult patients with rituximab relapsed or refractory CD20+ follicular B-cell non-Hodgkin's lymphoma (NHL).</p>	16/01/2004	Spectrum Pharmaceuticals B.V.
ZUTECTRA	Human Hepatitis B Immunoglobulin	Prevention of hepatitis B virus (HBV) re-infection in HBV-DNA negative patients over 6 months after liver transplantation for hepatitis B induced liver failure . Zutectra is indicated in adults only. The concomitant use of adequate virostatic agents should be considered, if appropriate, as standard of hepatitis B re-infection prophylaxis.	30/11/2009	Biotest Pharma GmbH
ZYDELIG	Idelalisib	<p>* In combination with rituximab, treatment of adult patients with chronic lymphocytic leukaemia (CLL):</p> <ul style="list-style-type: none"> - who have received at least one prior therapy, or - as first line treatment in the presence of 17p deletion or TP53 mutation in patients unsuitable for chemo-immunotherapy. <p>* As monotherapy, treatment of adult patients with follicular lymphoma (FL) that is refractory to two prior lines of treatment.</p>	18/09/2014	Gilead Sciences International Ltd.

Classification by date of MA in descending order

2014	EURARTESIM	TEVAGRASTIM	BUSILVEX	KOGENATE BAYER
BEMFOLA	HIZENTRA	2007	HUMIRA	PANRETIN
HEMANGIOL	TEYSUNO	FLEBOGAMMA DIF	VENTAVIS	THYROGEN
ZYDELIG	2010	ORENCIA	2002	1999
2013	NIVESTIM	2006	KINERET	AMMONAPS
ERIVEDGE	OZURDEX	ATRYN	SOMAVERT	FERRIPROX
GRASTOFIL	REVOLADE	KIOVIG	TRISENOX	REFACTO AF
HYQVIA	RUCONEST	OMNITROPE	VFEND	TEMODAL
LOJUXTA	VOTRIENT	SUTENT	2001	1998
NOVOEIGHT	2009	2005	CANCIDAS	MABTHERA
NUDEXTA	AFINITOR	AVASTIN	CEPROTIN	1997
OVALEAP	FILGRASTIM HEXAL	NOXAFIL	DEPOCYTE	BENEFIX
STAYVEER	ILARIS	TARCEVA	FABRAZYME	CEREZYME
VONCENTO	IXIARO	XYREM	GLIVEC	CYSTAGON
2012	ROACTEMRA	2004	INOMAX	1996
CAPRELSA	SAMSCA	ADVATE	NONAFACT	CAELYX
COLOBREATHE	VEDROP	ALIMTA	REPLAGAL	HYCAMTIN
INLYTA	ZARZIO	DUKORAL	TARGETIN	NOVOSEVEN
NOVOTHIRTEEN	ZUTECTRA	ERBITUX	XELODA	PUREGON
PIXUVRI	2008	LITAK	2000	RILUTEK
2011	ABRAXANE	LYSODREN	ENBREL	1995
BUCCOLAM	ADCIRCA	VELCADE	HELIXATE NEXGEN	GONAL-F
CINRYZE	BIOGRASTIM	ZEVALIN	HERCEPTIN	TAXOTERE
	PRIVIGEN	2003	INTRONA	
	RATIOGRASTIM	ALDURAZYME	KEPPRA	

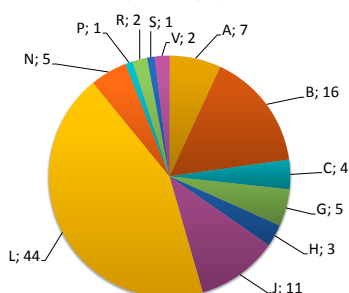
Number of medicinal products intended for rare diseases in Europe with European market authorisation without orphan designation in Europe by date of MA



Classification by ATC category

A- ALIMENTARY TRACT AND METABOLISM	STAYVEER	AFINITOR	TARCEVA
ALDURAZyme	G- GENITO URINARY SYSTEM AND SEX HORMONES	ALIMTA	TARGETIN
AMMONAPS	ADCIRCA	AVASTIN	TAXOTERE
CEREZYME	BEMFOLA	BIOGRASTIM	TEMODAL
CYSTAGON	GONAL-F	BUSILVEX	TEVAGRASTIM
FABRAZYME	OVALEAP	CAELYX	TEYSUNO
REPLAGAL	PUREGON	CAPRELSA	TRISENOX
VEDROP	H- SYSTEMIC HORMONAL PREPARATIONS, EXCL, SEX HORMONES AND INSULINS	DEPOCYTE	VELCADE
B- BLOOD AND BLOOD FORMING ORGANS	OMNITROPE	ENBREL	VOTRIENT
ADVATE	SOMAVERT	ERBITUX	XELODA
ATRYN	THYROGEN	ERIVEDGE	ZARZIO
BENEFIX	J- GENERAL ANTIINFECTIVES FOR SYSTEMIC USE	FILGRASTIM HEXAL	ZYDELIG
CEPROTIN	CANCIDAS	GLIVEC	N- NERVOUS SYSTEM
CINRYZE	DUKORAL	GRASTOFIL	BUCCOLAM
HELIXATE NEXGEN	FLEBOGAMMA DIF	HERCEPTIN	KEPPRA
KOGENATE BAYER	HIZENTRA	HUMIRA	NUEDEXTA
NONAFAC	HYQVIA	HYCAMTIN	RILUTEK
NOVOEIGHT	IXIARO	ILARIS	XYREM
NOVOSEVEN	KIOVIG	INLYTA	P- ANTIPARASITIC PRODUCTS, INSECTICIDES AND REPELLENTS
NOVOTHIRTEEN	NOXAFIL	INTRONA	EURARTESIM
REFACTO AF	PRIVIGEN	KINERET	R- RESPIRATORY SYSTEM
REVOLADE	VFEND	LITAK	COLOBREATHE
RUCONEST	ZUTECTRA	LYSODREN	INOMAX
VENTAVIS	L- ANTINEOPLASTIC AND IMMUNOMODULATING AGENTS	MABTHERA	S- SENSORY ORGANS
VONCENTO	ABRAXANE	NIVESTIM	OZURDEX
C- CARDIOVASCULAR SYSTEM		ORENCIA	V- VARIOUS
HEMANGIOL		PANRETIN	FERRIPROX
LOJUXTA		PIXUVRI	ZEVALIN
SAMSCA		RATIOGRASTIM	
		ROACTEMRA	
		SUTENT	

Number of medicinal products intended for rare diseases in Europe with European market authorisation without orphan designation in Europe by ATC category



Classification by MA holder

ABBVIE LTD
HUMIRA
ABZ-PHARMA GMBH
BIOGRASTIM
AEGERION PHARMACEUTICALS SAS
LOJUXTA
ALLERGAN PHARMACEUTICALS IRELAND
OZURDEX
APOTEX EUROPE B.V.
FERRIPROX
GRASTOFIL
ASTRAZENECA AB
CAPRELSA
AVENTIS PHARMA S.A.
RILUTEK
TAXOTERE
BAXTER AG
ADVATE
CEPROTIN
KIOVIG
BAXTER INNOVATIONS GMBH
HYQVIA
BAYER PHARMA AG
HELIXATE NEXGEN
KOGENATE BAYER
VENTAVIS
BIOTEST PHARMA GMBH
ZUTECTRA
BRISTOL-MYERS SQUIBB PHARMA EEIG
ORENCIA
CELGENE EUROPE LTD
ABRAXANE
CRUCELL SWEDEN AB
DUKORAL
CSL BEHRING GMBH
HIZENTRA
PRIVIGEN
VONCENTO
CTI LIFE SCIENCES LTD

PIXUVRI
EISAI LTD
PANRETIN
TARGRETIN
ELI LILLY NEDERLAND B.V.
ADCIRCA
ALIMTA
FINOX BIOTECH AG
BEMFOLA
FOREST LABORATORIES UK LTD
COLOBREATH
GENZYME EUROPE B.V.
ALDURAZYME
CEREZYME
FABRAZYME
THYROGEN
GILEAD SCIENCES INTERNATIONAL LTD
ZYDELIG
GLAXO GROUP LTD
VOTRIENT
GLAXOSMITHKLINE TRADING SERVICES LIMITED
REVOLADE
GTC BIOTHERAPEUTICS UK LIMITED
ATRYN
HEXAL AG
FILGRASTIM HEXAL
HOSPIRA UK LTD
NIVESTIM
INSTITUTO GRIFOLS S.A.
FLEBOGAMMA DIF
JANSSEN-CILAG INTERNATIONAL NV
CAELYX
VELCADE
JENSON PHARMACEUTICALS SERVICES LIMITED
NUEDEXTA

LABORATOIRE HRA PHARMA
LYSODREN
LINDE HEALTHCARE AB
INOMAX
LIPOMED GMBH
LITAK
MARKLAS NEDERLAND BV
STAYVEER
MERCK KGAA
ERBITUX
MERCK SERONO EUROPE LTD
GONAL-F
MERCK SHARP & DOHME LTD
CANCIDAS
INTRONA
NOXAFIL
TEMODAL
NORDIC GROUP BV
TEYSUNO
NOVARTIS EUROPHARM LTD
AFINITOR
GLIVEC
ILARIS
NOVO NORDISK A/S
NOVOEIGHT
NOVOSEVEN
NOVOTHIRTEEN
NV ORGANON
PUREGON
ORPHAN EUROPE S.A.R.L.
CYSTAGON
VEDROP
OTSUKA PHARMACEUTICAL EUROPE LTD
SAMSCA
PACIRA LIMITED
DEPOCYTE
PFIZER LTD
BENEFIX

ENBREL
INLYTA
REFACTO AF
SOMAVERT
SUTENT
VFEND
PHARMING GROUP N.V.
RUCONEST
PIERRE FABRE DERMATOLOGIE
HEMANGIOL
PIERRE FABRE MÉDICAMENTS
BUSILVEX
RATIOPHARM GMBH
RATIOGRASTIM
ROCHE REGISTRATION LTD
AVASTIN
ERIVEDGE
HERCEPTIN
MABTHERA
ROACTEMRA
TARCEVA
XELODA
SANDOZ GMBH
OMNITROPE
ZARZIO
SANQUIN
NONAFAC
SHIRE HUMAN GENETIC THERAPIES AB
REPLAGAL
SIGMA-TAU INDUSTRIE FARMACEUTICHE RIUNITE S.P.A
EURARTESIM
SMITHKLINE BEECHAM LTD
HYCANTIN
SPECTRUM PHARMACEUTICALS B.V.
ZEVALIN

SWEDISH ORPHAN BIOVITRUM INTERNATIONAL AB
AMMONAPS
KINERET
TEVA GMBH
TEVAGRASTIM
TEVA PHARMA BV
OVALEAP
TRISENOX
UCB PHARMA LTD
XYREM
UCB PHARMA SA
KEPPRA
VALNEVA AUSTRIA GMBH
IXIARO
VIROPHARMA SPRL
BUCCOLAM
CINRYZE

Please note that all data presented in this report are available for download at [Orphadata](http://www.orpha.net/orphadata)

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