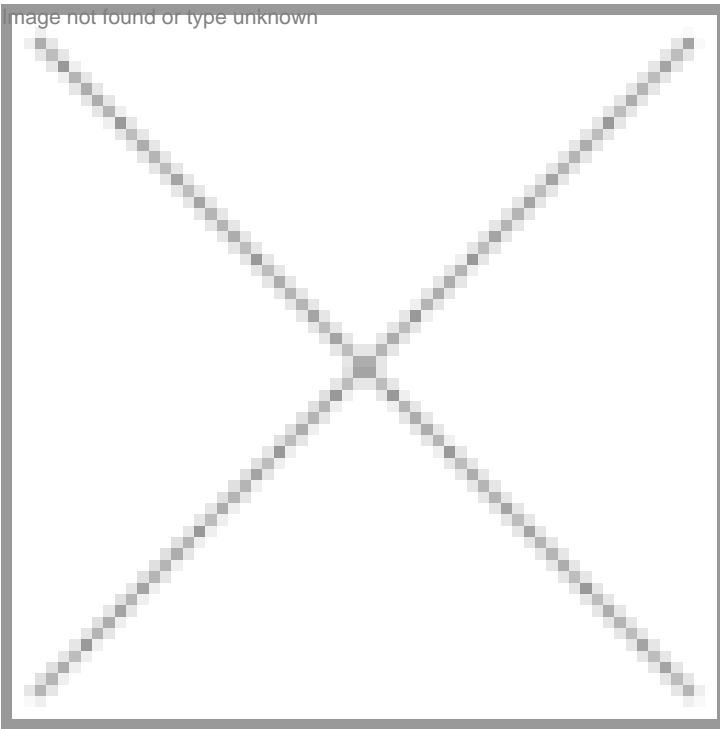


## Approved recombinant drugs in the world

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Product	Company	FDA Approval
Actimmune® (interferon gamma-1b)	InterMune Pharmaceuticals, Inc.	Dec 1990, Fe
Activase®/Cathflo® Activase® (alteplase; tissue plasminogen activator)	Genentech, Inc.	Nov 1987, J Sep-01
Advate® (Recombinant antihemophilic factor produced without any added human or animal plasma proteins and albumin)	Baxter Healthcare Corp.	Jul-03
Aldurazyme® (Laronidase; recombinant enzyme replacement)	BioMarin Pharmaceuticals Inc. and Genzyme	Apr-03
Alferon N® (interferon alfa-N3, human leukocyte derived)	Interferon Sciences, Inc	Oct-89
Alphanate® (human antihemophilic factor)	Alpha Therapeutic Corp.	Feb-97

Amevive® (Alefacept; recombinant, dimeric fusion protein; targets CD45RO+ T-cells)	Biogen Idec	Jan-03
Avonex® (Interferon beta-1a; recombinant)	Biogen Idec	May 1996, F
BeneFix®,ç (coagulation factor IX)	Wyeth	Feb-97
Betaseron® (Interferon beta-1b)	Berlex Laboratories and Chiron Corporation	Aug 1993, M
Bioclata®,ç (antihemophilic factor)	Aventis Behring	Dec-93
BioTropin®,ç (human growth hormone)	Biotech General	May-95
Cerezyme® (imiglucerase; recombinant form of beta-glucocerebrosidase)	Genzyme	May-94
Comvax®,ç (Haemophilus B conjugate [meningococcal conjugate] and hepatitis B [recombinant] vaccine)	Merck & Co., Inc.	Oct-96
ENBREL® (Etanercept; recombinant product; dimeric fusion protein consisting of tumor necrosis factor receptor linked to the Fc portion of human IgG1)	Amgen and Wyeth	Nov 1998, M Jan 2002, Ju Apr 2004, Se
Engerix-B® (hepatitis B vaccine)	GlaxoSmithKline	Sep 1989, Au
Epogen® (epoietin alfa)	Amgen	Jun 1989, Ju
Fabrazyme® (Algasidase beta; recombinant enzyme replacement)	Genzyme	Apr-03
GenoTropin® (human somatotropin)	Pharmacia	Aug 1995, Ne
Geref®	Serono S.A.	Oct-97
GlucaGen® (glucagon)	Novo Nordisk	Jun-98
Gonal-F® (follitropin alfa)	Serono S.A.	Sep 1998, Ju
Helixate® (antihemophilic factor)	Aventis Behring	Feb 1994, Ju
Humalog® (insulin)	Eli Lilly and Company	Jun-96
Humatrope® (Somatotropin)	Eli Lilly and Company	Aug 1996, M
Humulin® (human insulin)	Eli Lilly And Company	Oct-82
Infergen® (interferon alfacon-1)	InterMune Pharmaceuticals, Inc., and Amgen	Oct 1997, De
INFUSE®,ç Bone Graft/LT-CAGE®,ç (device utilizing recombinant human bone morphogenetic protein [rhBMP-2-])	Wyeth and Medtronic Sofamor Danek	Jul 2002, Apr
Intron A® (alpha-interferon)	Schering-Plough Corp.	Jun 1986, Ju Feb 1991, Ju Mar 1997, Ne
Leukine®/Leukine® Liquid (granulocyte macrophage colony-stimulating factor)	Berlex Laboratories	Mar 1991, Se Dec 1995, N
Norditropin® (somatotropin)	Novo Nordisk	May-95
Novolin L® (insulin; zinc suspension;)	Novo Nordisk	Jun-91
Novolin N® (insulin; isophane suspension)	Novo Nordisk	Jul-91
Novolin R® (insulin, regular;)	Novo Nordisk	Jun-91
Novolin® (insulin;)	Novo Nordisk	Oct-82
Novolin® 70/30 (70% insulin isophane	Novo Nordisk	Jun-91

suspension and 30% regular insulin;)		
NovoLog® (insulin aspart)	Novo Nordisk	May 2000, D
NovoSeven® (coagulation factor VIIa)	Novo Nordisk	Mar-99
Nutropin Depotâ,,ç (sustained-release formulation of somatropin)	Alkermes, Inc., and Genentech, Inc.	Dec-99
Nutropin®/Nutropin AQ® (somatropin)	Genentech, Inc.	Nov 1993, Ja Dec 1996, De
Pegasys® (peginterferon alfa-2a)	Roche and Nektar Therapeutics, Inc.	Oct 2002, De
PEG-Intronâ,,ç (pegylated version of interferon alfa-2b)	Enzon, Inc., and Schering-Plough Corp.	Jan 2001, Au
Procrit® (epoietin alfa)	Ortho Biotech, Inc.	Dec 1990, Ap
Proleukin, IL-2® (aldesleukin)	Chiron Corp.	May 1992, Ja
Protropin® (somatrem)	Genentech, Inc.	Oct-85
Rebetronâ,,ç (combination of ribavirin and alpha interferon)	Schering-Plough Corp.	Jun 1998, De
Rebif® (interferon beta 1-a)	Serono S.A., and Pfizer, Inc.	Mar-02
Recombinate® rAHF/ (antihemophilic factor)	Baxter Healthcare Corp.	Feb-92
Recombivax-HB®/ Recombivax HB Dialysis Formulation (hepatitis B vaccine)	Merck & Company, Inc.	Jul 1986, Jar Jun-93
ReFacto® (antihemophilic factor)	Wyeth	Mar-00
Retavaseâ,,ç (reteplase)	Centocor, Inc. (subsidiary of Johnson & Johnson)	Oct-96
Roferon-A® (interferon alfa-2a)	Hoffmann-La Roche, Inc.	Jun 1986, No Nov-95
Saizen® (human growth hormone)	Serono S.A.	Oct 1996, Au
SOMAVERT® (Pegvisomant; pegylated version of a recombinant human growth hormone analog structurally altered to act as a GH receptor antagonist)	Nektar Therapeutics and Pfizer, Inc.	Mar-03
TNKaseâ,,ç (tenecteplase)	Genentech, Inc.	Jun-00
Twinrix® (hepatitis A inactivated and hepatitis B [recombinant] vaccine)	SmithKline Beecham Biologicals (unit of GlaxoSmithKline)	May-01
Wellferon® (interferon alfa-n1, lymphoblastoid)	GlaxoSmithKline	Mar-99
Xigrisâ,,ç (drotrecogin alfa)	Eli Lilly and Company	Nov-01
Zorbtiveâ,,ç (Serostim® ) (Somatotropin)	Serono S.A.	Aug 1996, De

Source: Bio.org