

Recombinant Human EPO therapeutic protein(Erythropoietin)

Cat. No. EPO-P011H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human erythropoietin (recombinant), produced by CHO cells.
Species	Human
Source	CHO
ProteinLength	166 Aa
Description	This gene is a member of the EPO/TPO family and encodes a secreted, glycosylated cytokine composed of four alpha helical bundles. The protein is found in the plasma and regulates red cell production by promoting erythroid differentiation and initiating hemoglobin synthesis. This protein also has neuroprotective activity against a variety of potential brain injuries and antiapoptotic functions in several tissue types. The expression product is the active ingredient of Epogen, Epogin, Epomax, Eprex, NeoRecormon, Procrit, Recormon, Dynepo and Procrit.
Molecular Mass	18.4 Kda
AA Sequence	APPRLICDSRVLERYLLEAKEAENITTGCAEHCSLNENITVPDTKVNIFYAWKRMEVG QQAVEVWQGLALLS EAVLRGQALLVNSSQPWEPLQLHVDKAVSGLRSLTTLRLAL GAQKEAISPPDAASAAPLRTITADTFRKLF RVYSNFLRGKCLKLYTGEACRTGDR
Endotoxin	< 0.1 EU per µg of the protein
Purity	>95%

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Storage	Can be stored at +4 centigrade short term (1-2weeks). For long term storage, aliquot and store at -20 centigrade or -70 centigrade. Avoid repeated freezing and thawing cycles.
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Alias	EPO; EP; MVCD2; Erythropoietin
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GENE INFORMATION

Gene Name	EPO erythropoietin [Homo sapiens]
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Official Symbol	EPO
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Synonyms	EPO; erythropoietin; EP; epoetin; MVCD2; MGC138142;
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Gene ID	2056
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mRNA Refseq	NM_000799
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Protein Refseq	NP_000790
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MIM	133170
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UniProt ID	P01588
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Chromosome Location	7q21
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Pathway	Cytokine-cytokine receptor interaction, organism-specific biosystem; Cytokine-cytokine receptor interaction, conserved biosystem; EPO Receptor Signaling, organism-specific biosystem; EPO signaling pathway, organism-specific biosystem; HIF-1-alpha transcription factor network, organism-specific biosystem; HIF-2-alpha
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transcription factor network, organism-specific biosystem; Hematopoietic cell lineage, organism-specific biosystem;

Function

erythropoietin receptor binding; eukaryotic cell surface binding; hormone activity; protein binding; protein kinase activator activity;

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