

Active Recombinant Human Erythropoietin

Cat. No. EPO-01H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human EPO is expressed in CHO cells. The mature protein consists of a 165 amino acid polypeptide chain heavily glycosylated at three N-linked and O-linked glycosylation sites yielding a total molecular mass of 35-45kDa. About 40% of the fully glycosylated EPO molecule consists of carbohydrate.
Species	Human
Source	Mammalian Cells
Description	Erythropoietin (EPO) is 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.
Purity	≥98% as determined by SDS-PAGE and HPLC analyses
Formulation	Sterile filtered lyophilized powder.
Specific Activity	rHuEPO is fully biologically active when compared to standards. Its specific activity is $\geq 1.2 \times 10^5$ IU/mg.
Endotoxin	Less than 0.1EU/g determined by LAL test.
Reconstitution	It is recommended to reconstitute the lyophilized rHuEPO in sterile buffer not less

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than 100g/ml, which can then be further diluted to other aqueous solutions.

Storage

Lyophilized rHuEPO although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Reconstituted rHuEPO aliquots should be stored at -20°C for maximal stability up to three years. Aliquot to avoid repeated freeze-thaw cycles.

GENE INFORMATION

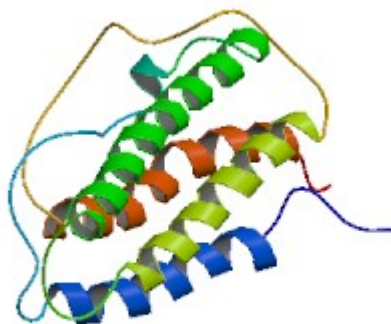
Gene Name	EPO
Synonyms	EP; MGC138142; Epoetin; Erythropoietin Precursor; EPO; erythropoietin
Gene ID	2056
mRNA Refseq	NM_000799
Protein Refseq	NP_000790
MIM	133170
UniProt ID	P01588
Chromosome Location	7q22
Pathway	Cytokine-cytokine receptor interaction; Hematopoietic cell lineage; Jak-STAT signaling pathway
Function	erythropoietin receptor binding IEA ;hormone activity IEA ;protein binding

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Crystal structure of
EPO. Available
structures: 1buy, 1cn4, 1e



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