Recombinant Human EPO protein

Cat. No. EPO-513H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human EPO alpha protein was expressed in CHO.
Species	Human
Source	CHO
ProteinLength	166
Description	Erythropoietin (EPO), a glycoprotein produced primarily by the kidney, is the principal factor that regulates erythropoiesis by stimulating the proliferation and differentiation of erythroid progenitor cells. The production of EPO by kidney cells is increased in response to hypoxia or anemia. Recombinant EPO has been approved for the treatment of anemia associated with chronic renal failure as well as for anemia of AZT treated AIDS patients.
Form	Lyophilized from a 0.2μm filtered concentrated solution in sodium citrate buffer (1 liter of ddH2O containing 5.9 g of sodium citrate, 5.8 g of sodium chloride and 0.06 g of citric acid).
Bio-activity	Fully biologically active when compared to standard. The Specific Activity was measured by the stimulation of reticulocyte production in normocyth-aemic mice and is no less than 1.5×10^5 IU/mg.
Molecular Mass	Mature human EPO, containing 166 amino acid residues, has a predicted molecular mass of approximately 21 kDa. As a result of glycosylation, the recombinant protein

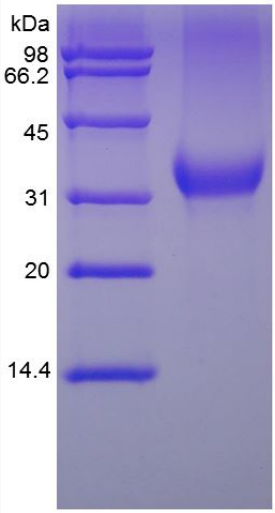
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	migrates with an apparent molecular mass of 36-40 kDa in SDS-PAGE.
AA Sequence	APPRLICDSRVLERYLLEAKEAENITTGCAEHCSLNENITVPDTKVNFYAWKRMEVG QQAVEVWQGLALLSEAVLRGQALLVNSSQPWEPLQLHVDKAVSGLRSLTTLLRALG AQKEAISPPDAASAAPLRTITADTFRKLFRVYSNFLRGKLKLYTGEACRTGDR
Endotoxin	Less than 0.01 EU/μg of rHuEPO-α as determined by LAL method.
Purity	>98% by SDS-PAGE and HPLC analysis.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, -20 to -70 centigrade under sterile conditions after reconstitution.
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at ≤-20 centigrade. Further dilutions should be made in appropriate buffered solutions.

GENE INFORMATION

Gene Name	EPO
Official Symbol	EPO
Synonyms	EPO; erythropoietin; EP; epoetin; MVCD2; MGC138142;
Gene ID	2056

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mRNA Refseq	NM_000799
Protein Refseq	NP_000790
MIM	133170
UniProt ID	P01588
SDS-PAGE of EPO-513H	

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