

Erythropoietin-alpha Active Protein | EPO active protein

Recombinant Human Erythropoietin-alpha

CATALOG # AAA38105	HOST Chinese Hamster Ovarian Cells (CHO)
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PRODUCT SYNONYMS

Erythropoietin-alpha; Recombinant Human Erythropoietin-alpha; EPO a Human; Erythropoietin-Alpha Human Recombinant; Erythropoietin-Alpha; EPO-a; EPO-alpha; Epoetin; EP; MGC138142; EPO a; EPO active protein

PRODUCT SPECIFICATIONS

Host	Chinese Hamster Ovarian Cells (CHO)
Purity/Purification	Greater than 98.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.
Form/Format	Each mg of lyophilized powder contains 0.59 mg sodium citrate, 0.58 mg sodium chloride and 0.006 mg citric acid. Sterile Filtered White lyophilized (freeze-dried) powder.
Sequence	APPRLICDSR VLERYLLEAK EAENITTGCA EHCSLNENIT VPDTKVNFYA WKRMEVGQQA VEVWQGLALL SEAVLRGQAL LVNSSQPWEP LQLHVDKAVS GLRSLTTLR ALGAQKEAIS PPDAASAAPL RTITADTRK LFRVYSNFLR GKLLYTGCA CRTGDR
Sequence Length	193
Solubility	It is recommended to reconstitute the lyophilized Epoetin-a in sterile 18M-cm H2O not less than 100 ug/ml, which can then be further diluted to other aqueous solutions.
Biological Activity	The Specific Activity was measured by Normocyth -aemic mice and was found to be 150,000 IU/mg.
Preparation and Storage	Lyophilized Erythropoietin-a although stable at room temperature for 3 weeks, should be stored desiccated below -18 degree C. Upon reconstitution EPO-alpha should be stored at 4 degree C between 2-7 days and for future use below -18 degree C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

ADDITIONAL INFORMATION

Related Product Information for EPO active protein	Description: Erythropoietin-alpha Human Recombinant is produced in Chinese hamster ovary (CHO) cells by recombinant DNA technology is a single, polypeptide chain containing 166 amino acids and having a predicted molecular mass of 21,000 Dalton and apparent glycosylated molecular mass of 36-40kDa. EPO-a is purified by proprietary chromatographic techniques. Introduction: 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.
Product Categories/Family for EPO active protein	Cytokines and Growth Factors; Growth Factors; Erythropoietin

NCBI AND UNIPROT INFORMATION

NCBI GI #	62240997
NCBI GeneID	2056
NCBI Accession #	NP_000790.2

NCBI GenBank Nucleotide #	NM_000799.2
UniProt Accession #	P01588; Q2M2L6; Q549U2; Q9UDZ0; Q9UEZ5; Q9UHA0
Molecular Weight	21,307 Da
NCBI Official Full Name	erythropoietin
NCBI Official Synonym Full Names	erythropoietin
NCBI Official Symbol	EPO
NCBI Official Synonym Symbols	EP; MVCD2
NCBI Protein Information	erythropoietin; epoetin
UniProt Protein Name	Erythropoietin
UniProt Gene Name	EPO
UniProt Entry Name	EPO_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/chinese-hamster-ovarian-cells-epo-active-protein/erythropoietin-alpha/38105>