
Product Data Sheet

Product Name: EPO a Human, Sf9
 Cat. No.: GP20197
 Batch No.: 1

Product Data

Purity	>98%	Source	Sf9, Insect cells.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Erythropoietin; Epoetin; MVCD2; EP; Erythropoietin-Alpha; EPO-a; EPO-alpha.		
Amino Acid Sequence	APPRLICDSRVLERYLLEAK EAENITTGCA EHCSLNENIT VPDTKVNIFYA WKRMEVGQQA VEVWQGLALL SEAVLRGQALLVNSSQPWEP LQLHVDKAVS GLRSLTLLR ALRAQKEAIS PPDAASAAPL RTITADTRFK LFRVYSNFLRGKCLKLYTGEA CRTGDRLEHH HHHH.		
Formulation	EPO a protein solution (0.5mg/ml) contains phosphate buffered saline (pH7.4) and 10% glycerol.		

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.

Biological Activity

Measured in a cell proliferation assay using TF-1 human erythroleukemic cells. The ED50 for this effect is 6 ■ 0.5 ng/ml.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

Caution: Product has not been fully validated for medical applications. For research use only.

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Erythropoietin-alpha Human Recombinant produced in Sf9 Insect cells is a single, glycosylated polypeptide chain containing 174 amino acids (28-193a.a.) and having a molecular mass of 19.5kDa (Molecular size on SDS-PAGE will appear at approximately 28-40kDa).EPO-a is expressed with an 8 amino acid His tag at C-Terminus and purified by proprietary chromatographic techniques.

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