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**Product Data Sheet**


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Product Name: EPO a Human  
 Cat. No.: GP20193  
 Batch No.: 1

**Product Data**

Purity	>95% as analyzed by SDS-PAGE; > 95% as analyzed by HPLC	Source	Chinese Hamster Ovary Cells(CHO).
Physical Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.	Shipping Condition	Shipped at Room temp.
Synonyms	Erythropoietin-Alpha; EPO-a; EPO-alpha; Epoetin; EP; MGC138142.		
Amino Acid Sequence	APRLICDSR VLERYLLEAK EAENITTGCA EHCSLNENIT VPDTKVNFYA WKRMEVGQQA VEVWQGLALL SEAVLRGQAL LVNSSQPWEP LQLHVDKAVS GLRSLTLLR ALGAQKEAIS PPDAASAAPL RTITADTFRK LFRVYSNFLR GKCLKYTGEA CRTGDR.		
Solubility	It is recommended to reconstitute the lyophilized Epoetin-a in sterile 18MΩ-cm H <sub>2</sub> O not less than 100μg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	Each mg of lyophilized powder contains 0.59 mg sodium citrate, 0.58 mg sodium chloride and 0.006 mg citric acid.		

**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**

ED<sub>50</sub> < 1.0 ng/ml, measured in a cell proliferation assay using TF-1 human erythroleukemic cells, corresponding to a specific activity of > 1.0 × 10<sup>6</sup> units/mg

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

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### Stability

Upon receiving, this product remains stable for up to 6 months at lower than -70°C, Upon reconstitution, the product should be stable for up to 1 week at 4°C or up to 3 months at -20°C. For long term storage it is recommended that a carrier protein (example 0.1% BSA) be added, Avoid repeated freeze-thaw cycles.

### Background

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.

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