

## 32-1151: EPO $\alpha$ Recombinant Protein

**Alternative Name :** Erythropoietin-Alpha,EPO-a,EPO-alpha,Epoetin,EP,MGC138142.

### Description

Source : Chinese Hamster Ovary Cells(CHO). 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. 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 Info

<b>Amount :</b>	50 $\mu$ g
<b>Purification :</b>	Greater than 98.0% as determined by:(a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE.
<b>Content :</b>	Each mg of lyophilized powder contains 0.59 mg sodium citrate, 0.58 mg sodium chloride and 0.006 mg citric acid.
<b>Storage condition :</b>	Lyophilized Erythropoietin-a although stable at room temperature for 3 weeks, should be stored desiccated below $-18^{\circ}\text{C}$ . Upon reconstitution EPO-alpha should be stored at $4^{\circ}\text{C}$ between 2-7 days and for future use below $-18^{\circ}\text{C}$ .For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Please prevent freeze-thaw cycles.
<b>Amino Acid :</b>	APPRLICDSR VLERYLLEAK EAENITTGCA EHCSLNENIT VPDTKVNIFYA WKRMEVGQQA VEVWQGLALL SEAVLRGQAL LVNSSQPWEP LQLHVDKAVS GLRSLTLLR ALGAQKEAIS PPDAASAAPL RTITADTFRK LFRVYSNFLR GKLKLYTGEA CRTGDR.

### Application Note

It is recommended to reconstitute the lyophilized Epoetin-a in sterile 18M-cm H<sub>2</sub>O not less than 100  $\mu$ g/ml, which can then be further diluted to other aqueous solutions. The Specific Activity was measured by Normocyth -aemic mice and was found to be 150,000 IU/mg.

