

Erythropoietin-Alpha Human Recombinant

Item Number	rAP-2183
Synonyms	Erythropoietin-Alpha, EPO-a, EPO-alpha, Epoetin, EP, MGC138142.
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.
Uniprot Accession Number	P01588
Amino Acid Sequence	APPRLICDSR VLERYLLEAK EAENITTGCA EHCSLNENIT VPDTKVNFYA WKRMEVGQQA VEVWQGLALL SEAVLRGQAL LVNSSQPWEP LQLHVDKAVS GLRSLTTLLR ALGAQKEAIS PPDAAS SAAPL RTITADTFRK LFRVYSNFLR GKLKLYTGEA CRTGDR.
Source	Chinese Hamster Ovary Cells(CHO).
Physical Appearance and Stability	Sterile Filtered White lyophilized (freeze-dried) powder. Lyophilized Erythropoietin-a although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution EPO-alpha should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.
Formulation and Purity	Each mg of lyophilized powder contains 0.59 mg sodium citrate, 0.58 mg sodium chloride and 0.006 mg citric acid. Greater than 98.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.
Application	
Solubility	It is recommended to reconstitute the lyophilized Epoetin-a in sterile 18MΩ-cm H ₂ O not less than 100µg/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.
Shipping Format and Condition	Lyophilized powder at room temperature.

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users! This product is sold for **Research Use Only**