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32-6340: EPO a Human, Sf9

Application : Functional Assay
Alternative Name : Erythropoietin, Epoetin, MVCD2, EP, Erythropoietin-Alpha, EPO-a, EPO-alpha.

Description

Source: Sf9, Insect cells.
Sterile filtered colorless solution.
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.
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.

Product Info

Amount :	2 µg / 10 µg
Purification :	Greater than 95.0% as determined by SDS-PAGE.
Content :	EPO a protein solution (0.5mg/ml) contains phosphate buffered saline (pH7.4) and 10% glycerol.
Storage condition :	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.
Amino Acid :	APPRLICDSR VLERYLLEAK EAENITTGCA EHCSLNENIT VPDTKVNFYA WKRMEVGQQA VEVWQGLALL SEAVLRGQAL LVNSSQPWEP LQLHVDKAVS GLRSLTTLLR ALRAQKEAIS PPDAASAAPL RTITADTFRK LFRVYSNFLR GKLKLYTGEA CRTGDRLEHH HHHH.

Application Note

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

For Research Use Only. Not for use in diagnostic/therapeutics procedures.