



Erythropoietin-alpha, HEK293, human recombinant (rHuEPOa-HEK)

Catalog No: 97437
Lot No: XXXX
Source: HEK293
Synonyms: Erythropoietin-Alpha, EPO-a, EPO-alpha, Epoetin, EP, MGC138142

Background

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.

Description

EPO-a human recombinant produced in HEK cells is a glycosylated monomer, having a total molecular weight of 36 kDa. EPO-alpha is purified by proprietary chromatographic techniques.

Physical Appearance

Sterile filtered white lyophilized (freeze-dried) powder.

Formulation

The EPO-alpha was lyophilized from 1 mg/ml in 1xPBS.

Solubility

It is recommended to reconstitute the lyophilized EPO-alpha in sterile water not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

Stability

Lyophilized EPO-alpha, 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.

Purity

Greater than 95% as determined by SDS-PAGE.

Activity

The specific activity was determined by the dose-dependent stimulation of the proliferation of human TF-1 cells (human erythroleukemic indicator cell line) and is typically 0.5 - 2.5 ng/ml.

Usage

This product is offered by Biomol for research purposes only. Not for diagnostic purposes or human use. It may not be resold or used to manufacture commercial products without written approval of Biomol GmbH.

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