

Human Recombinant Erythropoietin-alpha HEK (rh EPO-alpha HEK)

Synonyms: Epoetin, EP, MGC138142.

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.

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

Source: HEK Cells

Physical Appearance: Sterile filtered white lyophilized (freeze-dried) powder.

Formulation: The EPO-alpha was lyophilized from 1mg/ml in 1xPBS.
The aliquotes of 1µg and 2µg contain Trehalose 5% (w/vol) for better recovery

Solubility: It is recommended to reconstitute the lyophilized rh EPO-alpha HEK in sterile H₂O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

Stability: Lyophilized EPO although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution EPO 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 95.0% as determined by SDS-PAGE.

Amino Acid: APPRLICDSR VLERYLLEAK EAENITTGCA EHCSLNENIT VPDTKVNIFYA WKRMEVGQQA
VEVWQGLALL SEAVLRGQAL LVNSSQPWEP LQLHVDKAVS GLRSLTTLR ALGAQKEAIS PPDAASAAPL
RTITADTFRK LFRVYSNFLR GKLKLYTGEA CRTGDR.

Biological Activity: Determined by the dose-dependent stimulation of the proliferation of human TF-1 cells (human erythroleukemic indicator cell line) the biological activity is typically 0.5 – 2.5 ng/ml, corresponding to a specific activity of 400,000-2,000,000 units/mg.

This material is offered for **research use only**. Not for use in human. For in vitro use only. ImmunoTools will not be held responsible for patent infringement or other violations that may occur with the use of our products.

<i>small</i>	2 µg	Cat.N°	11345072
<i>medium</i>	10 µg	Cat.N°	11345073

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