

## EPO a Human, HEK

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

**Catalog #:**CYPS-090

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

For research use only.

**Source:**HEK.

**Physical Appearance:**Sterile Filtered White lyophilized (freeze-dried) powder.

**Purity:**Greater than 95% as observed by SDS-PAGE.

**Formulation:**

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

**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.

**Usage:**

NeoBiolabs products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

**Solubility:**

It is recommended to reconstitute the lyophilized EPO-alpha in sterile water not less than 100

**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.

**Biological 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 0.5-2.5ng/ml, corresponding to a specific activity of 400,000-2,000,000 units/mg.

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