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## Product Data Sheet

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Product Name: EPO a Human, HEK  
Cat. No.: GP20195  
Batch No.: 1

### Product Data

Purity	>98%	Source	HEK.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	Erythropoietin-Alpha; EPO-a; EPO-alpha; Epoetin; EP; MGC138142.		
Solubility	It is recommended to reconstitute the lyophilized EPO-alpha in sterile water not less than 100µg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	The EPO-alpha was lyophilized from 1mg/ml in 1xPBS.		

### 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.

### 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.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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Address: 10292 Central Ave. #205, Montclair, CA, USA

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### Background

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.

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