



## Erythropoietin-alpha, human recombinant, His Tag (rhuEPO)

**Catalog No:** 99954  
**Lot No:** XXXXX  
**Source:** *E. coli*  
**Synonyms:** Erythropoietin, EP, INN=Epoetin, EPO  $\alpha$ , Erythropoietin-alpha, EPO

### Background

EPO  $\alpha$  is a member of the EPO/TPO family and encodes a secreted, glycosylated cytokine composed of four  $\alpha$ -helical bundles. EPO  $\alpha$  is found in the plasma and regulates red blood cell production by promoting erythroid differentiation and initiating hemoglobin synthesis. EPO  $\alpha$  also has a neuroprotective activity against a variety of potential brain injuries and antiapoptotic functions in several tissue types.

### Description

EPO  $\alpha$ , human recombinant produced in *E. coli*, is a single, non-glycosylated polypeptide chain containing 189 amino acids (28-193 aa). It has a molecular mass of 20.9 kDa. EPO  $\alpha$  is fused to a 23 amino acid His-tag at N-terminus and is purified by proprietary chromatographic techniques.

### Physical Appearance

Sterile filtered, clear solution.

### Formulation

EPO $\alpha$  protein solution (1 mg/ml) contains 20 mM Tris-HCl buffer (pH 8.0), 0.4 M urea and 10% glycerol.

### Stability

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.

### Purity

Greater than 80% as determined by SDS-PAGE.

### Usage

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