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## Product Data Sheet

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Product Name: EPO a Human, His  
 Cat. No.: GP20196  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	800x600 Erythropoietin; EP; INN=Epoetin; EPO a; Erythropoietin-alpha;EPO.		
Amino Acid Sequence	800x600 MGSSHHHHHH SSGLVPRGSH MGSAPPR LIC DSRVLERYLL EAKEAENITT GCAEHCSLNE NITVPDTKVN FYAWKRMEVG QQAVEVWQGL ALLSEAVLRG QALLVNSSQP WEPLQLHVDK AVSGLRSLTT LLRALRAQKEAISPPDAASA APLRTITADT FRKLFRVYSN FLRGKCLKLYT GEACRTGDR.		
Formulation	800x600 800x600 EPO a protein solution (1mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.4M Urea and 10% glycerol.		

### Introduction

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

### 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.

### Background

800x600 EPO a Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 189 amino acids (28-193a.a.) and having a molecular mass of 20.9kDa. EPO a is fused to a 23 amino acid His-tag at N-terminus & purified by

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

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proprietary chromatographic techniques.

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