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## **Recombinant Mouse Erythropoietin/EPO Protein**

Catalog Number: ATGP3959

#### PRODUCT INFORMATION

## **Expression system**

Baculovirus

#### **Domain**

27-192aa

#### UniProt No.

P07321

#### **NCBI Accession No.**

NP 031968

#### **Alternative Names**

Erythropoietin, erythropoietin isoform 1 precursor, Epo

#### PRODUCT SPECIFICATION

## **Molecular Weight**

19.8kDa (176aa)

#### Concentration

0.25mg/ml (determined by Absorbance at 280nm)

#### **Formulation**

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

#### **Purity**

> 95% by SDS-PAGE

#### **Endotoxin level**

< 1 EU per 1ug of protein (determined by LAL method)

#### **Biological Activity**

Measured in a cell proliferation assay using TF-1 human erythroleukemic cells. The ED50 range  $\leq 2 \text{ng/ml}$ .

#### Tag

His-Tag

### **Application**

SDS-PAGE, Bioactivity

### **Storage Condition**

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## **BACKGROUND**

## **Description**

EPO, also known as erythropoietin, is a glycoprotein hormone in the type I cytokine family and is related to



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thrombopoietin. It is primarily produced in the kidney by a population of fibroblast-like cortical interstitial cells adjacent to the proximal tubules. This protein can be found in the plasma and regulates red cell production by promoting erythroid differentiation and initiating hemoglobin synthesis. It also has neuroprotective activity against a variety of potential brain injuries and anti-apoptotic functions in several tissue types. Recombinant mouse EPO, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

## **Amino acid Sequence**

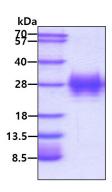
<ADP>MAPPRLI CDSRVLERYI LEAKEAENVT MGCAEGPRLS ENITVPDTKV NFYAWKRMEV EEQAIEVWQG LSLLSEAILQ AQALLANSSQ PPETLQLHID KAISGLRSLT SLLRVLGAQK ELMSPPDTTP PAPLRTLTVD TFCKLFRVYA NFLRGKLKLY TGEVCRRGDR < HHHHHH+>

#### **General References**

Koury, M.J., et al. (2005) Exp. Hematol. 33:1263. Jelkmann W., et al. (2007) Eur J Haematol. 78:183-205.

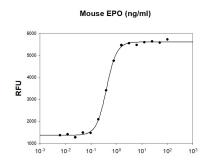
#### **DATA**

#### **SDS-PAGE**



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain

## **Biological Activity**



Mouse EPO stimulates cell proliferation of the TF-1 human erythroleukemic cells. The ED50 range  $\leq$  2ng/ml.

