

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 ActivityMeasured in a cell proliferation assay using TF-1 human erythroleukemic cells. The ED50 range \leq 2ng/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

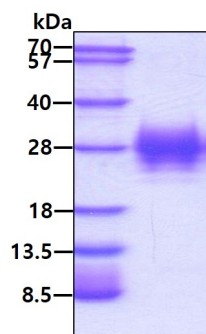
<ADP>MAPPRLI CDSRVLERYI LEAKEAENVT MGCAEGPRLS ENITVPDTKV NFWAWKRMEV EEQAIEVWQG LSLLEAILQ AQALLANSSQ PPETLQLHID KAISGLRSLT SLLRVLGAQK ELMSPDTP PAPLRTLTV DTFCKLFRVYA NFLRGKLLY TGEVCRRGDR <HHHHHH>

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.

