

Recombinant rat Erythropoietin/EPO protein

Catalog Number: ATGP4000

PRODUCT INFORMATION

Expression system

HEK293

Domain

27-192aa

UniProt No.

P29676

NCBI Accession No.

NP_058697.1

Alternative Names

Erythropoietin, erythropoietin isoform 1 precursor, Epo

PRODUCT SPECIFICATION

Molecular Weight

19.6kDa (175aa)

Concentration

1mg/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 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 member of the type I cytokine family and is related to thrombopoietin.

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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 rat Erythropoietin/EPO Protein, fused to His-tag at C-terminus, was expressed in HEK293 cell and purified by using conventional chromatography techniques.

Amino acid Sequence

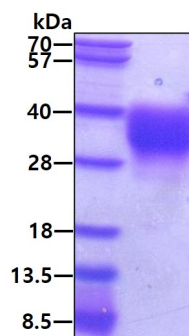
<DGS>APPRLIC DSRVLERYIL EAKEAENVTM GCAEGPRLSE NITVPDTKVN FYAWKRMKVE EQAVEVWQGL SLLSEAILQA QALQANSSQP PESLQLHIDK AISGLRSLTS LLRVLGAQKE LMSPPDATQA APLRTLADT FCKLFRVYSN FLRGKCLKLYT GEACRRGDR<H HHHHH>

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

Rat EPO stimulates cell proliferation of the TF-1 human erythroleukemic cells. The ED50 range ≤ 2 ng/ml.

