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# Recombinant human Erythropoietin/EPO protein

Catalog Number: ATGP3208

#### PRODUCT INFORMATION

# **Expression system**

Baculovirus

#### **Domain**

28-193aa

#### **UniProt No.**

P01588

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

NP 000790.1

# **Alternative Names**

EPO, EP, MVCD2

## PRODUCT SPECIFICATION

# **Molecular Weight**

19.5 kDa (174aa)

#### Concentration

0.5mg/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 ≤0.5ng/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. Its three N-glycosylation sites, four alpha helices, and N- to C-terminal disulfide bond are conserved across species. 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 human EPO, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

## **Amino acid Sequence**

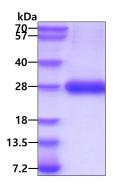
APPRLICDSR VLERYLLEAK EAENITTGCA EHCSLNENIT VPDTKVNFYA WKRMEVGQQA VEVWQGLALL SEAVLRGQAL LVNSSQPWEP LQLHVDKAVS GLRSLTTLLR ALRAQKEAIS PPDAASAAPL RTITADTFRK LFRVYSNFLR GKLKLYTGEA CRTGDR<LEHH HHHH>

#### **General References**

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

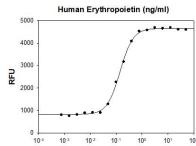
# **DATA**

#### **SDS-PAGE**



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

# **Biological Activity**



Measured in a cell proliferation assay using TF-1 human erythroleukemic cells. The ED50 range  $\leq$ 0.5 ng/ml.

