

Erythropoietin/EPO Active Protein | EPO active protein

Recombinant rat Erythropoietin/EPO protein

CATALOG # AAA48388	HOST HEK293	APPLICATIONS SDS-Page
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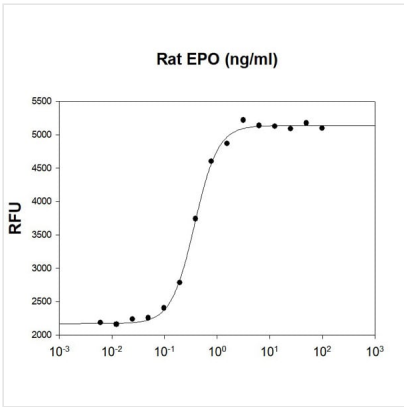
PRODUCT SYNONYMS

Erythropoietin/EPO; Recombinant rat Erythropoietin/EPO protein; Erythropoietin; erythropoietin isoform 1 precursor; Epo; EPO active protein

PRODUCT SPECIFICATIONS

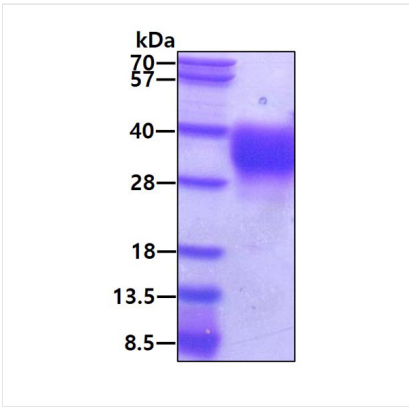
Host	HEK293
Purity/Purification	>95% by SDS-PAGE
Form/Format	Liquid. In Phosphate-Buffered Saline (pH7.4) containing 10% glycerol
Concentration	1mg/ml (determined by Absorbance at 280nm) (varies by lot)
Sequence Positions	27-192aa
Sequence	APPRL ICDSRVLERY ILEAKEAENV TMGCAEGPRL SENITVPDTK VNFYAWKRMK VEEQAVEVWQ GLSLLSEAIL QAQALQANSS QPPESLQLHI DKAISGLRSL TSLLRVLGAQ KELMSPPDAT QAAPLRTLTA DTFCKLFRVY SNFLRGKCLKL YTGEACRRGD R
Applicable Applications for EPO active protein	Bioactivity, SDS-PAGE
Endotoxin	<1 EU per 1ug of protein (determined by LAL method)
Species	Rat
Tag	His-Tag
Predicted N-term	Asp
Bioactivity	Measured in a cell proliferation assay using TF-1 human erythroleukemic cells. The ED50 range <= 2ng/ml.
Preparation and Storage	Can be stored at +2C to +8 degree C for 1 week. For long term storage, aliquot and store at -20C to -80 degree C. Avoid repeated freezing and thawing cycles.

IMAGES



Bioactivity

Rat EPO stimulates cell proliferation of the TF-1 human erythroleukemic cells. The ED50 range



SDS-PAGE

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

ADDITIONAL INFORMATION

Related Product Information for EPO active protein	EPO, also known as erythropoietin, is a member of the type I cytokine family and is related to 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 rat Erythropoietin/EPO Protein, fused to His-tag at C-terminus, was expressed in HEK293 cell and purified by using conventional chromatography techniques.
Product Categories/Family for EPO active protein	Angiogenesis; Cardiovascular; Proteins
References	Koury, M.J., et al. (2005) Exp. Hematol. 33:1263. Jelkmann W., et al. (2007) Eur J Haematol. 78:183-205.

NCBI AND UNIPROT INFORMATION

NCBI GI #	8393316
NCBI GeneID	24335
NCBI Accession #	NP_058697.1
NCBI GenBank Nucleotide #	NM_017001.1
UniProt Accession #	P29676; P70504
Molecular Weight	21,286 Da
NCBI Official Full Name	erythropoietin
NCBI Official Synonym Full Names	erythropoietin
NCBI Official Symbol	Epo
NCBI Protein Information	erythropoietin
UniProt Protein Name	Erythropoietin
UniProt Gene Name	Epo
UniProt Entry Name	EPO_RAT

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

