

Erythropoietin/EPO Recombinant Protein | EPO recombinant protein

Recombinant Rat Erythropoietin/EPO Protein

CATALOG #
AAA283359

HOST
HEK293 cells

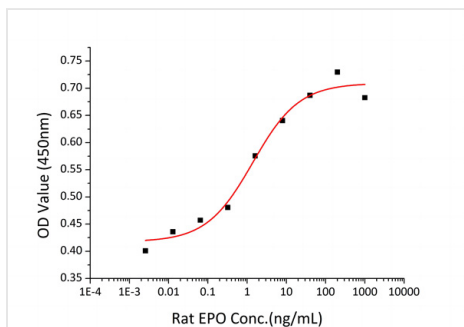
PRODUCT SYNONYMS

Erythropoietin/EPO; Recombinant Rat Erythropoietin/EPO Protein; Erythropoietin; Epo; EPO recombinant protein

PRODUCT SPECIFICATIONS

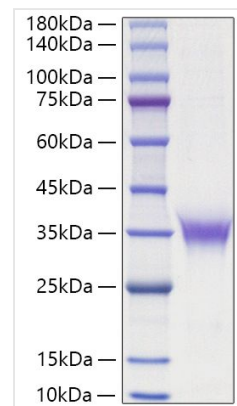
Host	HEK293 cells
Form/Format	Lyophilized from a 0.22 um filtered solution of PBS, pH7.4.
Sequence	APRLICDSR VLERYILEAK EAENVTMGCA EGPRLSENIT VPDTKVNIFYA WKRMKVEEQA VEVWQGLSLL SEAILQAQAL QANSSQPPES LQLHIDKAIS GLRSLTSLLR VLGAQKELMS PPDATQAAPL RTLTADTFCK LFRVYSNFLR GKLKLYTGEA CRRGDR
Species	Rat
Tag	C-His
Endotoxin	<0.1EU/ug of the protein by LAL method.
Bio-Activity	Measured in a cell proliferation assay using TF-1 Human erythroleukemic cells. The ED ₅₀ for this effect is 0.7-2.8ng/mL, corresponding to a specific activity of 3.57×10 ⁵ ~1.43×10 ⁶ units/mg.
Preparation and Storage	Store at -20 degree C. Store the lyophilized protein at -20 degree C to -80 degree C up to 1 year from the date of receipt. After reconstitution, the protein solution is stable at -20 degree C for 3 months, at 2-8 degree C for up to 1 week.

IMAGES



Application Data

Recombinant Rat Erythropoietin/EPO stimulates cell proliferation assay using TF-1 Human erythroleukemic cells. The ED₅₀ for this effect is 0.7-2.8 ng/mL, corresponding to a specific activity of 3.57×10⁵~1.43×10⁶ units/mg.



SDS-PAGE

Recombinant Rat Erythropoietin/EPO Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 30-40 kDa.

ADDITIONAL INFORMATION

Related Product Information for EPO recombinant protein	Erythropoietin (EPO), originally identified for its critical hormonal role in promoting erythrocyte survival and differentiation, is a member of the large and diverse cytokine superfamily. EPO and EPOR function as the primary mediators of a general protective response to tissue hypoxia, which acts to maintain adequate tissue oxygenation through adjustments of circulating red cell mass by using a hormonal feedback-control system involving the kidney and the bone marrow. EPO and EPORs are also expressed by other tissues and organs, including the brain and heart. EPO has also been shown to stimulate mitosis and signaling in astrocytes, endothelial cells, cardiomyoblasts, and cardiomyocytes maintained in vitro
Product Categories/Family for EPO recombinant protein	Cytokines & Cytokine receptors; Proteins

NCBI AND UNIPROT INFORMATION

NCBI GI #	232064
NCBI GeneID	24335
UniProt Accession #	P29676; P70504
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.

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Online datasheet: <https://stage.aaabiotech.com/epo-recombinant-protein-hek293-cells/283359>