

Erythropoietin/EPO Active Protein | EPO active protein

Recombinant Mouse Erythropoietin/EPO (C-6His)

CATALOG #
AAA177969

HOST
Human Cells

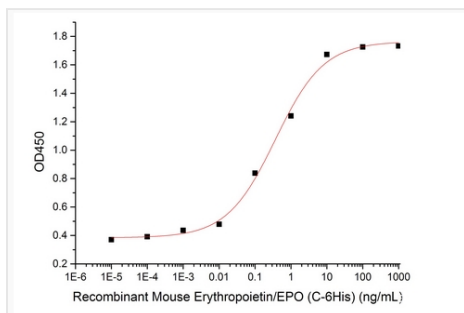
PRODUCT SYNONYMS

Erythropoietin/EPO; Recombinant Mouse Erythropoietin/EPO (C-6His); Erythropoietin; Epoetin; EPO; EPO active protein

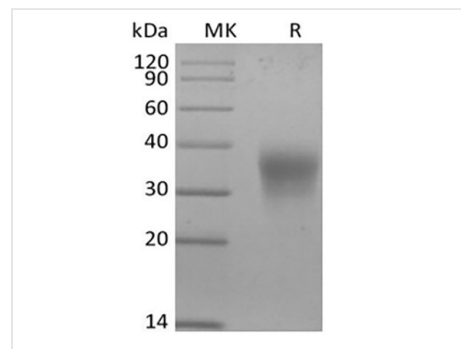
PRODUCT SPECIFICATIONS

Host	Human Cells
Purity/Purification	>95% as determined by reducing SDS-PAGE
Form/Format	Lyophilized from a 0.2um filtered solution of PBS, pH7.4.
Sequence	Ala27-Arg1 92
Species	Mouse
Tag	C-6His
Endotoxin	<1.0EU per ug as determined by the LAL method.
Protein Construction	Recombinant Mouse Erythropoietin is produced by our Mammalian expression system and the target gene encoding Ala27-Arg192 is expressed with a 6His tag at the C-terminus.
Activity	Measured in a cell proliferation assay using TF?1 human erythroleukemic cells. The ED50 for this effect is 0.35ng/mL.
Preparation and Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80 degree C. Reconstituted protein solution can be stored at 4-8 degree C for 2-7 days. Aliquots of reconstituted samples are stable at < -20 degree C for 3 months. This product is provided as lyophilized powder which is shipped with ice packs.

IMAGES



Bioactivity



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for EPO active protein	Erythropoietin (EPO) is a glycoprotein hormone that is principally known for its role in erythropoiesis, where it is responsible for stimulating proliferation and differentiation of erythroid progenitor cells. Erythropoietin is a member of the EPO/TPO family. It is a secreted, glycosylated cytokine composed of four alpha helical bundles. The differentiation of CFU-E (Colony Forming Unit-Erythroid) cells into erythrocytes can only be accomplished in the presence of EPO. Physiological levels of EPO in adult mammals are maintained primarily by the kidneys, whereas levels in fetal or neonatal mammals are maintained by the liver. EPO also can exert various non-hematopoietic activities, including vascularization and proliferation of smooth muscle, neural protection during hypoxia, and stimulation of certain B cells. Genetic variation in erythropoietin is associated with susceptibility to microvascular complications of diabetes type 2. These are pathological conditions that develop in numerous tissues and organs as a consequence of diabetes mellitus. They include diabetic retinopathy, diabetic nephropathy leading to end-stage renal disease, and diabetic neuropathy.
--	--

NCBI AND UNIPROT INFORMATION

NCBI GI #	21389309
NCBI GeneID	13856
NCBI Accession #	NP_031968.1
NCBI GenBank Nucleotide #	NM_007942.2
UniProt Accession #	Q0VED9; P07321
Molecular Weight	48,700
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	Q0VED9_MOUSE

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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/human-cells-active-protein/erythropoietin-epo/177969>