Erythropoietin/EPO Protein, Mouse (HEK293, solution)

Cat. No.:	HY-P73038
Synonyms:	ECYT5; EP; EPO; epoetin; Erythropoietin; MVCD2
Species:	Mouse
Source:	HEK293
Accession:	NP_031968.1 (A27-R192)
Gene ID:	13856
Molecular Weight:	Approximately 23-36 kDa due to glycosylation.

PROPERTIES

AA Sequence	M G V P E R P T L L L L L S L L L I P L G L P V L C A P P R L I C D S R V L E R Y I L E A K E A E N V T M G C A E G P R L S E N I T V P D T K V N F Y A W K R M E V E E Q A I E V W Q G L S L L S E A I L Q A Q A L L A N S S Q P P E T L Q L H I D K A I S G L R S L T S L L R V L G A Q K E L M S P P D T T P P A P L R T L T V D T F C K L F R V Y A N F L R G K L K L Y T G E V C R R G D R
Biological Activity	Measured in a cell proliferation assay using TF-1 human erythroleukemic cells.The ED_{50} for this effect is typically 2-10 ng/mL.
Appearance	Solution.
Formulation	Supplied as a 0.2 μm filtered solution of PBS, pH 7.4.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	N/A.
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice

DESCRIPTION

Background	This gene encodes the glycoprotein hormone erythropoietin, which plays a crucial role in regulating red blood cell production and hemoglobin biosynthesis. While this gene is predominantly expressed in the liver during fetal development, it shifts to the kidneys in adults. Complete absence of the encoded protein leads to embryonic lethal anemia in mice, and conditional inactivation in adult mice results in chronic, normocytic, and normochromic anemia. Transgenic mice expressing the human ortholog of this gene exhibit polycythemia. Various isoforms are generated through alternative

	splicing. Notably, the expression of this gene is low in the reference dataset.

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