Erythropoietin Protein, Rat (sf9, His)

Cat. No.:	HY-P73040
Synonyms:	ECYT5; EP; EPO; epoetin; Erythropoietin; MVCD2
Species:	Rat
Source:	Sf9 insect cells
Accession:	P29676-1 (A27-R192)
Gene ID:	24335
Molecular Weight:	Approximately 27 kDa

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 K V E E Q A V E V W Q G L S L L S E A I L Q A Q A L Q A N S S Q P P E S 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 A T Q A A P L R T L T A D T F C K L F R V Y S N F L R G K L K L Y T G E A C R R G D R
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μm filtered solution of 20 mM Tris, 500 mM NaCl, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	Epo Protein is a hormone primarily responsible for regulating the proliferation and differentiation of erythrocytes, as well as maintaining a balanced level of circulating erythrocyte mass. It accomplishes this by binding to its receptor, EPOR, which leads to the dimerization of EPOR and subsequent activation of JAK2. This activation triggers a cascade of signaling events involving specific downstream effectors such as STAT1 and STAT3. These pathways, including the RAS-MAPK and JAK-STAT5 pathways, contribute to the diverse functions of Epo Protein. Additionally, Epo Protein exists as a homodimer connected by disulfide bonds.

Caution: Product has not been fully validated for medical applications. For research use only.

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