

## Erythropoietin/EPO Protein, Mouse (HEK293, His)

Cat. No.:	HY-P70409
Synonyms:	rMuErythropoietin/EPO, His; Erythropoietin; Epoetin; EPO
Species:	Mouse
Source:	HEK293
Accession:	Q0VED9 (A27-R192)
Gene ID:	13856
Molecular Weight:	30-40 kDa

### PROPERTIES

AA Sequence	<pre> 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           </pre>
Biological Activity	The cell proliferation assay using TF 1 human erythroleukemic cells has an ED <sub>50</sub> value of 0.05-0.35 ng/mL.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
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	<p>Erythropoietin (EPO) is a hormone crucial for regulating the proliferation and differentiation of erythrocytes, as well as maintaining a balanced circulating erythrocyte mass. Upon binding to its receptor, EPOR, EPO triggers EPOR dimerization and subsequent activation of JAK2, initiating specific downstream signaling pathways, notably involving STAT1 and STAT3. These molecular events play a pivotal role in orchestrating the processes that contribute to erythropoiesis and the overall homeostasis of red blood cell levels.</p>
------------	--

---

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA