

## Erythropoietin/EPO Protein, Pig (His-B2M)

<b>Cat. No.:</b>	HY-P72187
<b>Synonyms:</b>	EPOErythropoietin
<b>Species:</b>	Pig
<b>Source:</b>	E. coli
<b>Accession:</b>	P49157 (A27-R194)
<b>Gene ID:</b>	397249
<b>Molecular Weight:</b>	Approximately 32.6 kDa

### PROPERTIES

<b>AA Sequence</b>	<pre> A P P R L I C D S R   V L E R Y I L E A K   E G E N A T M G C A   E S C S F S E N I T V P D T K V N F Y A   W K R M E V Q Q Q A   M E V W Q G L A L L   S E A I L Q G Q A L L A N S S Q P S E A   L Q L H V D K A V S   G L R S L T S L L R   A L G A Q K E A I P L P D A S P S S A T   P L R T F A V D T L   C K L F R N Y S N F   L R G K L T L Y T G E A C R R R D R </pre>
<b>Appearance</b>	Lyophilized powder.
<b>Formulation</b>	Lyophilized from a 0.2 µm solution of Tris-based buffer, 50% Glycerol.
<b>Endotoxin Level</b>	<1 EU/µg, determined by LAL method.
<b>Reconstitution</b>	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> O.
<b>Storage &amp; Stability</b>	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.
<b>Shipping</b>	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

<b>Background</b>	Erythropoietin (EPO) protein is a crucial hormone that regulates the proliferation and differentiation of erythrocytes, ensuring a balanced and adequate level of circulating red blood cells. By binding to its receptor (EPOR), EPO induces EPOR dimerization and subsequently activates JAK2, initiating a cascade of events that involve specific downstream effectors such as STAT1 and STAT3. These molecular processes play a pivotal role in maintaining optimal erythrocyte mass and homeostasis within the body.
-------------------	--

---

**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