

## Erythropoietin/EPO Protein, Pig (P.pastoris, His)

Cat. No.:	HY-P71732
Synonyms:	EPO; Erythropoietin
Species:	Pig
Source:	P. pastoris
Accession:	P49157 (27A-194R)
Gene ID:	397249
Molecular Weight:	Approximately 20.6 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 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>
Appearance	Lyophilized powder.
Formulation	Lyophilized after extensive dialysis against solution in Tris-based buffer, 50% glycerol.
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.
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) 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.</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