

## Erythropoietin Protein, Horse (His-SUMO)

Cat. No.:	HY-P72185
Synonyms:	EPOErythropoietin
Species:	Others
Source:	E. coli
Accession:	Q867B1 (A27-R192)
Gene ID:	100033849
Molecular Weight:	Approximately 34.3 kDa

### PROPERTIES

AA Sequence	<pre> A P P R L I C D S R   V L E R Y I L E A R   E A E N V T M G C A   E G C S F G E N V T V P D T K V N F Y S   W K R M E V E Q Q A   V 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 T   L R L H V D K A V S   S L R S L T S L L R   A L G A Q K E A I S P P D A A S A A P L   R T F A V D T L C K   L F R I Y S N F L R   G K L K L Y T G E A C R R G D R           </pre>
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm solution of 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) is a vital hormone that regulates the proliferation and differentiation of erythrocytes, playing a crucial role in maintaining a physiological level of circulating erythrocyte mass. Through its binding to the erythropoietin receptor (EPOR), EPO induces EPOR dimerization and activates JAK2, initiating specific downstream signaling pathways. Notably, this cascade includes the activation of specific effectors such as STAT1 and STAT3, which collectively contribute to the intricate processes governing erythropoiesis and ensuring the overall balance of red blood cell levels.</p>
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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