

Erythropoietin Protein, Cynomolgus (His-SUMO)

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| Cat. No.: | HY-P72186 |
| Synonyms: | EPOErythropoietin |
| Species: | Cynomolgus |
| Source: | E. coli |
| Accession: | P07865 (A28-R192) |
| Gene ID: | 101925524 |
| Molecular Weight: | Approximately 34.2 kDa |

PROPERTIES

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| AA Sequence | <pre> A P P R L I C D S R V L E R Y L L E A K E A E N V T M G C S E S C S L N E N I T V P D T K V N F Y A W K R M E V G Q Q A V E V W Q G L A L L S E A V L R G Q A V L A N S S Q P F E P L Q L H M D K A I S G L R S I T T L L R A L G A Q E A I S L P D A A S A A P L R T I 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 </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 ₂ 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

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| Background | <p>Erythropoietin protein (EPO) plays a crucial role in regulating the growth and maturation of red blood cells, as well as maintaining the appropriate balance of circulating erythrocytes in the body. When EPO binds to its receptor (EPOR), it triggers EPOR dimerization, which in turn activates JAK2, initiating a cascade of events that involve specific downstream effectors such as STAT1 and STAT3. These molecular pathways are essential for ensuring the proper proliferation and differentiation of erythrocytes, as well as maintaining the optimal level of red blood cells in circulation.</p> |
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Caution: Product has not been fully validated for medical applications. For research use only.

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