

Recombinant Human EPO, His-tagged

Cat. No. EPO-2291H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human EPO protein, fused to His-tag at N-terminus, was expressed in E.coli.
Species	Human
Source	E.coli
ProteinLength	189aa
Description	Erythropoietin, also known as EPO, is a member of the EPO/TPO family and encodes a secreted, glycosylated cytokine hormone composed of four alpha helical bundles. The protein is found in the plasma and regulates red cell production by promoting erythroid differentiation and initiating hemoglobin synthesis. Overexpression of EPO is associated with several pathophysiological conditions, such as polycythemia vera, which is caused by the EPO-independent growth of erythrocytic progenitors from abnormal stem cells.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.4M Urea, 10% glycerol
Molecular Mass	20.9 kDa
AA Sequence	MGSSHHHHHH SSSLVPRGSH MGSAPPRLIC DSRVLERYLL EAKEAENITT GCAEHCSLNE NITVPDTKVN FYAWKRMEVG QQAVEVWQGLALLSEAVLRG QALLVNSSQP WEPLQLHVDK AVSGLRSLTT LLRALRAQKE AISPPDAASA APLRTITADT FRKLFVYSN FLRGKCLKLYT GEACRTGDR

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Purity	>80% by SDS - PAGE
Applications	SDS-PAGE
Storage	Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.
Concentration	1 mg/ml

GENE INFORMATION

Gene Name	EPO erythropoietin [Homo sapiens]
Official Symbol	EPO
Synonyms	EPO; erythropoietin; EP; epoetin; MVCD2; MGC138142;
Gene ID	2056
mRNA Refseq	NM_000799
Protein Refseq	NP_000790
MIM	133170
UniProt ID	P01588
Chromosome Location	7q21
Pathway	Cytokine-cytokine receptor interaction, organism-specific biosystem; Cytokine-cytokine receptor interaction, conserved biosystem; EPO Receptor Signaling,

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organism-specific biosystem; EPO signaling pathway, organism-specific biosystem; HIF-1-alpha transcription factor network, organism-specific biosystem; HIF-2-alpha transcription factor network, organism-specific biosystem; Hematopoietic cell lineage, organism-specific biosystem;

Function

erythropoietin receptor binding; eukaryotic cell surface binding; hormone activity; protein binding; protein kinase activator activity;

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