

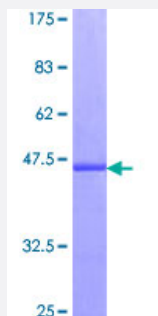
Full-Length

EPO (Human) Recombinant Protein (P01)

Catalog # H00002056-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description	Human EPO full-length ORF (NP_000790.2, 1 a.a. - 193 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	MGVHECPAWLWLLLSLLSLPLGLPVLGAPPRLICDSRVLERYLLEAKEAENITTGCAEHCSLNENI TVPDTKVNIFYAWKRMEVGQQAVEVWQGLALLSEAVLRGQALLVNSSQPWEPLQLHVDKAVSG LRSLTLLRALGAQKEAISPDAASAAPLRITITADTFRKLFRVYSNFLRGKLKLYTGEACRTGDR
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	47.7
Interspecies Antigen Sequence	Mouse (80); Rat (83)
Preparation Method	in vitro wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.

Note

Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — EPO

Entrez GeneID	2056
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GeneBank Accession#	NM_000799.2
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Protein Accession#	NP_000790.2
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Gene Name	EPO
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Gene Alias	EP, MGC138142
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Gene Description	erythropoietin
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Omim ID	133170
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Gene Ontology	Hyperlink
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Gene Summary	This gene is a member of the EPO/TPO family and encodes a secreted, glycosylated cytokine 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. This protein also has neuroprotective activity against a variety of potential brain injuries and antiapoptotic functions in several tissue types. [provided by RefSeq]
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Other Designations	epoetin
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Publication Reference

- [rhEPO/EPO discrimination with ultrasensitive electrochemical biosensor based on sandwich-type nano-Au/ZnO sol-gel/nano-Au signal amplification.](#)

Zhang L, Wang Y, Wang J, Shi J, Deng K, Fu W.

Biosensors & Bioelectronics 2013 Dec; 50:217.

Application: Func, Human, Recombinant protein

Pathway

- [Cytokine-cytokine receptor interaction](#)
- [Hematopoietic cell lineage](#)
- [Jak-STAT signaling pathway](#)

Disease

- [Amyotrophic lateral sclerosis](#)
- [Cardiovascular Diseases](#)
- [Dermatitis](#)
- [Diabetes Mellitus](#)
- [Diabetic Nephropathies](#)
- [Diabetic Retinopathy](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Leukemia](#)
- [Myelodysplastic Syndromes](#)
- [Retinopathy of Prematurity](#)
- [Rhinitis](#)