

Bioactive

EPO (Human) Recombinant Protein

Catalog # P7301 Size 10 ug

Applications

Result of activity analysis

Result of activity analysis

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Specification

Product Description	Human EPO (P01588, 28 a.a. - 193 a.a.) partial recombinant protein expressed in CHO cells.
Sequence	APPRLLCDSRVLERYLLEAKEAENITTGCAEHCSLNENITVPDTKVNFYAWKRMEVGQQAVEVWQ GLALLSEAVLRGQALLVNSSQPWEPLQLHVDKAVSGLRSLTLLRALGAQKEAISPPDAASAAPL RTITADTFRKLFRVYSNFLRGKLKLYTGEACRTGDR
Host	Mammals
Theoretical MW (kDa)	21
Form	Lyophilized
Preparation Method	Mammalian cell (CHO) expression system
Purity	> 95% as analyzed by SDS-PAGE. > 95% as analyzed by HPLC.
Endotoxin Level	< 0.2 EU/μg of protein by gel clotting method
Activity	ED ₅₀ < 1.0 ng/mL, measured in a cell proliferation assay using TF-1 human erythroleukemic cells, corresponding to a specific activity of > 1.0 × 10 ⁶ units/mg.

Recommend Usage	Biological Activity SDS-PAGE The optimal working dilution should be determined by the end user.
Storage Buffer	Lyophilized from PBS. Reconstitute the lyophilized powder in sterile distilled water or aqueous buffer containing 0.1% BSA to a concentration of 0.1-1.0 mg/mL.
Storage Instruction	Store at 4°C to 8°C for 1 week. For long term storage store at -20°C to -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Result of activity analysis Result of activity analysis

Applications

- Functional Study
- SDS-PAGE

Gene Info — EPO

Entrez GeneID	2056
Protein Accession#	P01588
Gene Name	EPO
Gene Alias	EP, MGC138142
Gene Description	erythropoietin
Omim ID	133170
Gene Ontology	Hyperlink
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]
Other Designations	epoetin

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](#)