Bioactive

EPO (Human) Recombinant Protein

Catalog # P8575 Size 2 x 10 ug

Specification

Product Description	Human EPO partial recombinant protein with His tag in C-terminus expressed in Sf9 cells.
Sequence	APPRLICDSRVLERYLLEAKEAENITTGCAEHCSLNENITVPDTKVNFYAWKRMEVGQQAVEVWQ GLALLSEAVLRGQALLVNSSQPWEPLQLHVDKAVSGLRSLTTLLRALRAQKEAISPPDAASAAPL RTITADTFRKLFRVYSNFLRGKLKLYTGEACRTGDRLEHHHHHH
Host	insect
Theoretical MW (kDa)	19.5
Form	Liquid
Preparation Method	Insect cell (Sf9) expression system
Purification	Chromatography
Purity	> 95% as determined by SDS-PAGE.
Activity	ED_{50} ≤ 0.5 ng/mL, measured in a cell proliferation assay using TF-1 human erythroleukemic cells.
Storage Buffer	In? PBS, pH 7.4 (10% glycerol).
Storage Instruction	Stored at 4°C for 2-4 weeks, should be stored at -20°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid repeated freeze/thaw cycles.

Applications

- Functional Study

Gene Info — EPO

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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 co mposed of four alpha helical bundles. The protein is found in the plasma and regulates red cell pr oduction by promoting erythroid differentiation and initiating hemoglobin synthesis. This protein al so has neuroprotective activity against a variety of potential brain injuries and antiapoptotic functio ns 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

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- Leukemia
- Myelodysplastic Syndromes
- Retinopathy of Prematurity
- Rhinitis

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