Bioactive HuPro®

EPO (Human) Recombinant Protein

Catalog # P8573 Size 2 x 10 ug

Specification

Product Description	Human EPO recombinant protein expressed in?HEK293 cells.
Host	Human
Theoretical MW (kDa)	36
Form	Lyophilized
Preparation Method	Mammalian cell (HEK 293) expression system
Purification	Chromatography
Purity	> 95% as determined by SDS-PAGE.
Activity	The specific activity was determined by the dose-dependent stimulation of the proliferation of human TF-1 cells (human erythroleukemic indicator cell line) and is 0.5-2.5ng/mL, corresponding to a specifi c activity of 400,000-2,000,000 units/mg.
Storage Buffer	Lyophilized from a solution containing 1X PBS. Reconstitute the lyophilized powder in ddH_2O to 100 ug/mL.
Storage Instruction	Lyophilized protein at room temperature for 3 weeks, should be stored at -20°C. Protein aliquots at 4 °C for 2-7 days and should be stored at -20°C to -80°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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