

Bioactive

EPO (Human) Recombinant Protein

Catalog # P8572 Size 2 x 10 ug

Specification

Product Description	Human EPO recombinant protein (linked to the Fc portion of human IgG1) expressed in CHO cells.
Host	Mammals
Theoretical MW (kDa)	140
Form	Lyophilized
Preparation Method	Mammalian cell (CHO) expression system
Purity	> 98% as determined by (a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE.
Activity	ED ₅₀ < 2.0 ng/mL, measured by the dose-dependent stimulation of human megakaryoblastic leukemia cells, corresponding to a Specific Activity of 5 x 10 ⁵ IU/mg.
Storage Buffer	Lyophilized from a solution containing 1X PBS, pH 7.4. Reconstitute the lyophilized powder in ddH ₂ O 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

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](#)