

Bioactive

EPO (Human) Recombinant Protein

Catalog # P3605

Size 50 ug

Specification

Product Description	Human EPO (P01588, 28 a.a. - 193 a.a.) partial recombinant protein expressed in CHO cells.
Sequence	APPRLICDSRVLERYLLEAKEAENITTGCAEHCSLNENITVPDTKVNIFYAWKRMEVGQQAVEVWQ GLALLSEAVLRGQALLVNSSQPWEPLQLHVDKAVSGLRSLTLLRALGAQKEAISPPDAASAAPL RTITADTFRKLFVRVYSNFLRGKCLKYTGEACRTGDR
Host	Mammals
Theoretical MW (kDa)	35
Form	Lyophilized
Preparation Method	Mammalian cell (CHO) expression system
Purification	Ion exchange column and HPLC reverse phase column
Purity	> 90% by SDS-PAGE and HPLC
Endotoxin Level	< 0.1 ng/ug (1 EU/ug)
Activity	Activity was determined by the dose-dependent proliferation assay using a factor-dependent human erythroleukemic cell line TF-1 and was found to be 3.8×10^5 IU/mg.
Storage Buffer	Lyophilized from PBS, pH 7
Storage Instruction	Store at -20°C on dry atmosphere for 2 years. After reconstitution with deionized water, store at 4°C for 1 month or store at -20°C for 6 months. Aliquot to avoid repeated freezing and thawing.

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](#)