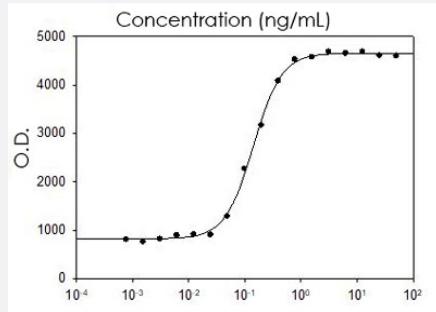
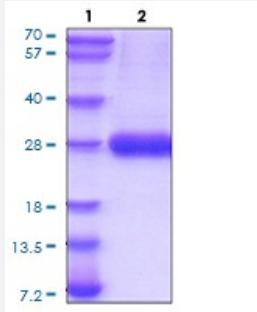


## Bioactive

# EPO (Human) Recombinant Protein

Catalog # P7953      Size 100 ug

## Applications



### Result of bioactivity analysis

Result of bioactivity analysis

## Specification

<b>Product Description</b>	Human EPO (P01588, 28 a.a. - 193 a.a.) partial length recombinant protein with His tag expressed in Baculovirus expression system.
<b>Sequence</b>	APPRLICDSRVLERYLLEAKEAENITTGCAEHCSLNENITVPDTKVNFYAWKRMEVGQQAVEVWQGLALLSEAVLRGQALLVNSSQPWEPLQLHVVDKAVSGRLSLTLLRALGAQKEAISPPDAASAAPLRTITADTFRKLFRLRVYSNFLRGKLKLYTGEACRTGDR
<b>Host</b>	Viruses
<b>Theoretical MW (kDa)</b>	19.5
<b>Form</b>	Liquid
<b>Preparation Method</b>	Baculovirus expression system

<b>Purity</b>	> 95% by SDS-PAGE
<b>Endotoxin Level</b>	< 1 EU per 1 ug of protein (determined by LAL method)
<b>Activity</b>	ED <sub>50</sub> is < 0.5 ng/mL, measured in a cell proliferation assay using TF-1 human erythroleukemic cells.
<b>Quality Control Testing</b>	3 ug by SDS-PAGE under reducing condition and visualized by Coomassie blue stain.
<b>Storage Buffer</b>	In Phosphate-Buffer Saline pH 7.4 (10% glycerol)
<b>Storage Instruction</b>	Store at 2°C to 8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C. Aliquot to avoid repeated freezing and thawing.
<b>Note</b>	Result of bioactivity analysis Result of bioactivity analysis

## Applications

- Functional Study
- SDS-PAGE

## Gene Info — EPO

<b>Entrez GenelD</b>	<a href="#">2056</a>
<b>Protein Accession#</b>	<a href="#">P01588</a>
<b>Gene Name</b>	EPO
<b>Gene Alias</b>	EP, MGC138142
<b>Gene Description</b>	erythropoietin
<b>Omim ID</b>	<a href="#">133170</a>
<b>Gene Ontology</b>	<a href="#">Hyperlink</a>
<b>Gene Summary</b>	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]
<b>Other Designations</b>	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](#)