

Recombinant Human EPO therapeutic protein(Erythropoietin)

Cat. No. EPO-P011H Lot. No. (See product label)

SPECIFICATION

| | |
|-------------------------|--|
| Product Overview | Human erythropoietin (recombinant), produced by CHO cells. |
| Species | Human |
| Source | CHO |
| ProteinLength | 166 Aa |
| Description | 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. The expression product is the active ingredient of Epogen, Epogin, Epomax, Eprex, NeoRecormon, Procrit, Recormon, Dynepo and Procrit. |
| Molecular Mass | 18.4 Kda |
| AA Sequence | APPRLICDSRVLERYLLEAKEAENITTGCAEHCSLNENITVPDTKVNIFYAWKRMEVGGQAVEVWQGLALLS EAVLRGQALLVNSSQPWEPLQLHVDKAVSGLRSLTLLRALGAQKEAISPPDAASAAPLRTITADTFRKLF RVYSNFLRGKCLKLYTGEACRTGDR |
| Endotoxin | < 0.1 EU per µg of the protein |
| Purity | >95% |

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Storage Can be stored at +4 centigrade short term (1-2weeks). For long term storage, aliquot and store at -20 centigrade or -70 centigrade. Avoidrepeated freezing and thawing cycles.

Alias EPO; EP; MVCD2; Erythropoietin

GENE INFORMATION

Gene Name [EPO erythropoietin \[Homo sapiens \]](#)

Official Symbol [EPO](#)

Synonyms EPO; erythropoietin; EP; epoetin; MVCD2; MGC138142;

Gene ID [2056](#)

mRNA Refseq [NM_000799](#)

Protein Refseq [NP_000790](#)

MIM [133170](#)

UniProt ID [P01588](#)

Chromosome Location 7q21

Pathway Cytokine-cytokine receptor interaction, organism-specific biosystem; Cytokine-cytokine receptor interaction, conserved biosystem; EPO Receptor Signaling, organism-specific biosystem; EPO signaling pathway, organism-specific biosystem; HIF-1-alpha transcription factor network, organism-specific biosystem; HIF-2-alpha

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transcription factor network, organism-specific biosystem; Hematopoietic cell lineage, organism-specific biosystem;

Function

erythropoietin receptor binding; eukaryotic cell surface binding; hormone activity; protein binding; protein kinase activator activity;

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