

Active Recombinant Human EPO, Fc-tagged

Cat. No. EPO-234H Lot. No. (See product label)

SPECIFICATION

Product Overview	The extracellular domain of human EPO (aa 30-193) is fused to the N-terminus of the Fc region of a mutant human IgG1.
Species	Human
Source	CHO
ProteinLength	30-193 a.a.
Description	Erythropoietin is the principal hormone involved in the regulation of erythropoiesis by stimulating the proliferation and differentiation of erythroid progenitor cells and the maintenance of a physiological level of circulating erythrocyte mass. It is a glycoprotein produced primarily by the kidney. The biological effects of EPO are mediated by the erythropoietin receptor (Epo R). Genetic variations in EPO is associated with susceptibility to microvascular complications of diabetes type 2 (MVCD2) (including diabetic retinopathy, diabetic nephropathy leading to end-stage renal disease and diabetic neuropathy). It is used for the treatment of anemia and misused as a performance-enhancing drug in endurance athletes.
Form	Lyophilized from 0.2µm-filtered solution in PBS.
Bio-activity	Measured by the dose-dependant stimulation of human megakaryoblastic leukemia cells.
Purity	≥98% (SDS-PAGE)

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Stability	Stable for at least 1 year after receipt when stored at -20°C. Working aliquots are stable for up to 3 months when stored at -20°C.
Storage	Short Term Storage: +4°C; Long Term Storage: -20°C. Avoid freeze/thaw cycles.
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 transcription factor network, organism-specific biosystem; Hematopoietic cell lineage,

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organism-specific biosystem;

Function

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

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