Recombinant Human Etythropoietin Receptor, Fc-tagged

Cat. No. EPOR-4114H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	A DNA sequence encoding the extracellular domain (Met 1 - Pro 250) of human EPOR (NP_000112.1) linked with the extracellular domain (Trp 17 - Trp 443) of human CD131 (NP_000386.1) by a peptide linker was fused with the Fc region of human IgG1 at the C-terminus.
Species	Human
Source	Human
ProteinLength	1-250;17-443 a.a.
Description	EPOR is a single-pass type I membrane protein which belongs to the type I cytokine receptor family and Type 1 subfamily.
Form	Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose and mannitol are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA.
Purity	> 90 % as determined by SDS-PAGE
Endotoxin	< 1.0 EU per μg protein as determined by the LAL method
Stability	Samples are stable for up to twelve months from date of receipt at -70°C.
Predicted N terminal	Ala 25

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Molecular Mass	The recombinant human EPOR&CD131 / Fc chimera is a disulfide-linked homodimer of EPOR & CD131-Fc heterodimer. The reduced EPOR & CD131-Fc comprises 906 amino acids and has a calculated molecular mass of 101 kDa. As a result of glycosylation, the apparent molecular mass of the recombinant protein is approximately 125 kDa in SDS-PAGE under reducing conditions.
Storage	Store it under sterile conditions at -70°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage. Avoid repeated freeze-thaw cycles.
Pathways	Cytokine-cytokine receptor interaction; EPO Receptor Signaling; EPO signaling pathway; Hematopoietic cell lineage; Jak-STAT siqnaling pathway; Kit Receptor Siqnaling Pathway; Paxillin-independent events mediated by a4b1 and a4b7; Siqnaling events mediated by Stem cell factor (c-Kit)

GENE INFORMATION

Gene Name	EPOR erythropoietin receptor [Homo sapiens]
Official Symbol	EPOR
Synonyms	EPOR; erythropoietin receptor; EPO-R; MGC138358; Erythropoietin receptor
Gene ID	2057
mRNA Refseq	NM_000121
Protein Refseq	NP_000112
MIM	133171
UniProt ID	P19235

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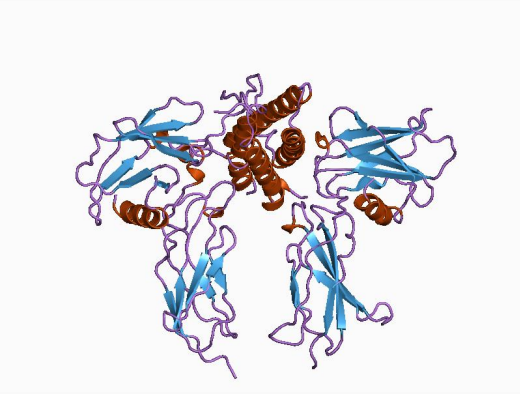
Chromosome Location	19p13.3-p13.2
Function	erythropoietin receptor activity; identical protein binding; protein binding
Renderingof 1CN4	

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