

Active Recombinant Mouse Erythropoietin Receptor, Fc-tagged

Cat. No. Epor-461M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Eporprotein was expressed in Murine myeloma cell line with the Fc part of human IgG1.Ala25-Pro249.
Species	Mouse
Source	Mammalian Cells
ProteinLength	25-249 a.a.
Description	Erythropoietin (Epo), a glycoprotein produced primarily by the kidney, is the principal factor that regulates erythropoiesis by stimulating the proliferation and differentiation of erythroid progenitor cells. The biological effects of Epo are mediated by the Epor. A member of the hematopoietic growth factor receptor superfamily which includes IL2, IL3, IL4, IL5, IL6, IL7, GM-CSF, G-CSF, thrombopoietin, LIF, CNTF, growth hormone, and prolactin.
Form	Lyophilized from a 0.2µm filtered solution in PBS, EDTA and CHAPS.
N-terminalSequence	Ala25
Molecular Weight	51.3 kDa
Activity	Measured by its ability to inhibit Epor-dependent proliferation of TF1 human erythroleukemic cells. Kitamura, T. et al. (1989) J. Cell Physiol. 140:323. The ED50 for

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this effect is typically 12.5-50 ng/mL in the presence of 16 ng/mL of rmEpo.

Endotoxin Level	<1.0 EU per 1 µg of the protein by the LAL method.
Purity	>90%, by SDS-PAGE under reducing conditions and visualized by silver stain.
Reconstitution	Reconstitute at 100 µg/mL in sterile PBS
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70°C as supplied. 1 month, 2 to 8°C under sterile conditions after reconstitution. 3 months, -20 to -70°C under sterile conditions after reconstitution.

GENE INFORMATION

Gene Name	Epor erythropoietin receptor [<i>Mus musculus</i>]
Official Symbol	Epor
Synonyms	Epor; erythropoietin receptor; EPO-R
Gene ID	13857
mRNA Refseq	NM_010149
Protein Refseq	NP_034279
UniProt ID	P14753
Chromosome Location	9 A3; 9 5.0 cM
Pathway	Cytokine-cytokine receptor interaction; EPO Receptor Signaling; Hematopoietic cell

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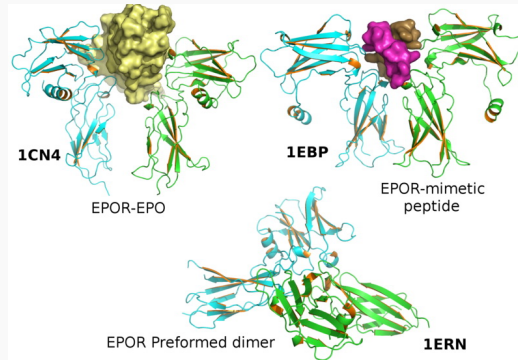
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lineage; Jak-STAT signaling pathway; Kit Receptor Signaling Pathway

Function

cytokine receptor activity; erythropoietin receptor activity; identical protein binding; protein binding; receptor activity; transmembrane signaling receptor activity

**Dimeric states of the EPO receptor
1CN4, 1EBP, 1ERN**



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