

Active Recombinant Mouse Erythropoietin Receptor

Cat. No. Epor-464M Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Eporprotein was expressed in Murine myeloma cell line. Ala27-Arg192.
Species	Mouse
Source	Mammalian Cells
ProteinLength	27-192 a.a.
Description	Erythropoietin (Epo) is a 34 kDa glycoprotein hormone in the type I cytokine family and is related to thrombopoietin. Its three N glycosylation sites, four alpha helices, and N to C terminal disulfide bond are conserved across species. Glycosylation of Epo is required for biological activities in vivo. Mature mouse Epo shares 95% amino acid sequence identity with rat Epo and 73%-82% with bovine, canine, equine, feline, human, ovine, and porcine EPO.
Form	Lyophilized from a 0.2µm filtered solution in PBS with BSA as a carrier protein.
N-terminalSequence	Ala27
Molecular Weight	18.6 kDa
Activity	Measured in a cell proliferation assay using TF1 human erythroleukemic cells. Kitamura, T. et al. (1989) J. Cell Physiol. 140:323. The ED50 for this effect is typically 0.4-2 ng/mL.

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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 10 µg/mL in sterile PBS that containing at least 0.1% human or bovine serum albumin.
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 [Mus musculus]
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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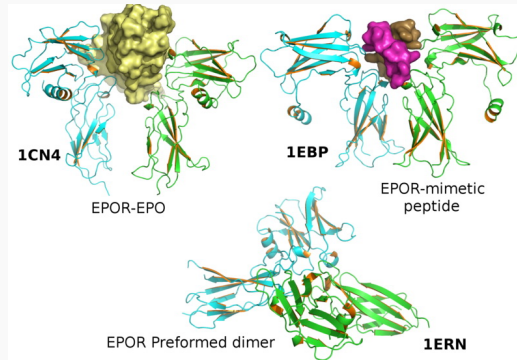
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lineage; Jak-STAT signaling pathway; Kit Receptor Signaling Pathway

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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