

Active Recombinant Human EPOR Protein, His&Avi tagged

Cat. No. EPOR-66H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	EpoR dimer protein contains an EpoR extracellular domain (UniProt# P19235) fused with a proprietary dimer motif followed by a tandem His-Avi tag at the C-terminus.
Species	Human
Source	HEK293T
ProteinLength	25-250 aa
Description	Human erythropoietin receptor (EpoR), also known as EPO-R and CD131, is a transmembrane protein found on the surface of erythropoietin (Epo) responding cells. EpoR belongs to the type I cytokine receptor family. EpoR contains an extracellular domain with two fibronectin type II domains, a transmembrane domain, a juxtamembrane region, and a cytoplasmic region. It functions as a homodimer to form an active receptor complex upon ligand binding that is crucial for receptor activation and downstream signaling. EpoR dysregulation is involved in blood disorders including the development of erythroleukemia and familial erythrocytosis. Therefore, a recombinant protein mimicking the EpoR dimer conformation can be crucial for therapeutic discovery.
Molecular Mass	70 kDa
Homodimer/Heterodimer	Homodimer

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Purity	Greater than 90% dimer form as determined by SDS-PAGE under non-reducing condition
Application	Verified Applications: ELISA for EpoR specific antibody and erythropoietin (Epo) ligand protein binding assays. Suggested Applications: ELISA for EpoR-specific antibody and erythropoietin (Epo) ligand protein binding assays. SPR & BLI for EpoR-specific antibody and Epo protein binding assays. Animal immunization, RUO.
Storage	At -80 centigrade
Storage Buffer	0.22µm filtered PBS, pH 7.4
Shipping	Frozen Dry Ice

GENE INFORMATION

Gene ID	2057
Gene Name	EPOR erythropoietin receptor [Homo sapiens (human)]
Official Symbol	2057
Synonyms	EPOR; erythropoietin receptor; EPO-R; MGC138358;
mRNA Refseq	NM_000121
Official Symbol 2	EPOR
Gene ID 2	2057

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Gene Name 2	EPOR erythropoietin receptor [Homo sapiens (human)]
mRNA Refseq 2	NM_000121
Protein Refseq 2	NP_000112
MIM 2	133171
UniProt ID 2	P19235
Bioactivity-Antibody Binding	Immobilized human EpoR-His-Avi dimer protein at 2 µg/mL (100 µL/well) can bind anti-human EpoR monoclonal antibody with half maximal effective concentration (EC50) range of 9.1-36.2 ng/mL (QC tested).
Bioactivity-Ligand Binding	Immobilized human Epo at 2 µg/mL (100 µL/well) can bind EpoR-His-Avi dimer protein with half maximal effective concentration (EC50) range of 0.3-1.2 µg/mL (QC tested).
SDS-PAGE	MW: Molecular Weight marker reduced condition NR: EpoR dimer under non-reducing condition