

Recombinant Human EPO Receptor/EPOR Protein (Fc Tag)

Catalog No. PKSH031462

Note: Centrifuge before opening to ensure complete recovery of vial contents.

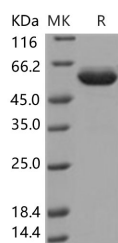
Description

Synonyms	EPO-R
Species	Human
Expression Host	HEK293 Cells
Sequence	Met-Pro 250
Accession	NP_000112.1
Calculated Molecular Weight	51.0 kDa
Observed molecular weight	55-60 kDa
Tag	C-hFc
Bioactivity	<ol style="list-style-type: none"> 1. Immobilized CD131 at 10 µg/ml (100 µl/well) can bind biotinylated recombinant human EPOR with a linear range of 0.16-4 µg/ml. 2. Measured by its ability to inhibit Ependependent proliferation of TF-1 human erythroleukemic cells. The ED50 for this effect is 1-4 ng/ml in the presence of 0.1 U/mL Recombinant Human EPO.

Properties

Purity	> 90 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per µg of the protein as determined by the LAL method.
Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from sterile PBS, 8% sucrose, 0.5% Tween-20, pH 7.4 Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
Reconstitution	Please refer to the printed manual for detailed information.

Data



> 90 % as determined by reducing SDS-PAGE.

For Research Use Only

Background

Erythropoietin (EPO) is the major glycoprotein hormone regulator of mammalian erythropoiesis, and is produced by kidney and liver in an oxygen-dependent manner. The biological effects of EPO are mediated by the specific erythropoietin receptor (EPOR/EPO Receptor) on bone marrow erythroblasts, which transmits signals important for both proliferation and differentiation along the erythroid lineage. EPOR protein is a type I single-transmembrane cytokine receptor, and belongs to the homodimerizing subclass which functions as ligand-induced or ligand-stabilized homodimers. EPOR signaling prevents neuronal death and ischemic injury. Recent studies have shown that EPO and EPOR protein may be involved in carcinogenesis, angiogenesis, and invasion.

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