

Recombinant Protein Technical Manual Recombinant Human EPO Receptor/EPOR Protein

Expression host: HEK293 Cells

(Fc Tag)(Active) RPES1218

Product Data:

Product SKU: RPES1218

Species: Human

Size: 50µg

luman

Uniprot: NP_000112.1

Protein Information:	
Molecular Mass:	51.0 kDa
AP Molecular Mass:	55-60 kDa
Tag:	C-Fc
Bio-activity:	1. Measured by its binding ability in a functional ELISA. Immobilized CD131 at 10 μ g/ml (100 μ l/well) can bind biotinylated recombinant human EPOR with a linear range of 0.16-4 μ g/ml.2. Measured by its ability to inhibit Epo-dependent proliferation of TF human erythroleukemic cells. The ED50 for this effect is 1-4 ng/ml in the presence of 0.1 U/mL Recombinant Human EPO.
Purity:	> 90 % as determined by reducing SDS-PAGE.
Endotoxin:	< 1.0 EU per μg as determined by the LAL method.
Storage:	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
Reconstitution:	Please refer to the printed manual for detailed information.
Application:	Functional ELISA
Synonyms:	EPO-R

Sequence: Met-Pro 250

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 â... 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.