

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.