

## Recombinant Mouse EPO Receptor/EPOR Protein (His Tag)(Active)

Catalog No. PKSM040899

### Description

<b>Synonyms</b>	Epor
<b>Species</b>	Mouse
<b>Expression_host</b>	HEK293 Cells
<b>Sequence</b>	Met1-Pro249
<b>Accession</b>	NP_034279.3
<b>Mol_Mass</b>	26.2 kDa
<b>AP_Mol_Mass</b>	30-35 kDa
<b>Tag</b>	C-His
<b>Bio_activity</b>	1. Measured by its ability to inhibit EPO-dependent proliferation of TF-1 human erythroleukemic cells.The ED50 for this effect is typically 0.1-0.5 µg/mL in the presence of 16 ng/mL Recombinant mouse EPO.2. Measured by its binding ability in a functional

### Properties

<b>Purity</b>	> 95 % as determined by reducing SDS-PAGE.
<b>Endotoxin</b>	< 1.0 EU per µg as determined by the LAL method.
<b>Storage</b>	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.
<b>Shipping</b>	This product is provided as lyophilized powder which is shipped with ice packs.
<b>Formulation</b>	Lyophilized from sterile PBS, pH 7.4
<b>Reconstitution</b>	Please refer to the printed manual for detailed information.

### 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 α... 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.

## SDS-PAGE

