

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

Catalog Number: PKSM040899

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

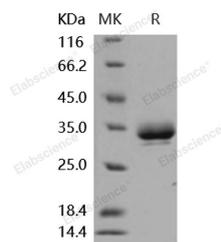
## Description

<b>Synonyms</b>	Epor
<b>Species</b>	Mouse
<b>Expression Host</b>	HEK293 Cells
<b>Sequence</b>	Met 1-Pro 249
<b>Accession</b>	NP_034279.3
<b>Calculated Molecular Weight</b>	26.2 kDa
<b>Observed molecular weight</b>	30-35 kDa
<b>Tag</b>	C-His
<b>Bioactivity</b>	<ol style="list-style-type: none"><li>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.</li><li>2. Immobilized mouse EPOR-His at 10µg/mL (100µL/well) can bind biotinylated mouse EPO-His. The EC50 of biotinylated mouse EPO-His is 34. 5-80.6ng/mL.</li></ol>

## Properties

<b>Purity</b>	> 95 % as determined by reducing SDS-PAGE.
<b>Endotoxin</b>	< 1.0 EU per µg of the protein 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 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.
<b>Reconstitution</b>	Please refer to the printed manual for detailed information.

## Data



> 95 % as determined by reducing SDS-PAGE.

## 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

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proliferation and differentiation along the erythroid lineage. EPOR protein is a type 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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