

Recombinant Human Erythropoietin R/EPO-R Protein

Catalog No.: RP00111 **Recombinant**

Sequence Information

Species Human **Gene ID** 2057 **Swiss Prot** P19235

Tags

C-hFc&His

Synonyms

EPOR;EPO-R

Background

This protein is erythropoietin receptor which is a member of the cytokine receptor family. Upon erythropoietin binding, this receptor activates Jak2 tyrosine kinase which activates different intracellular pathways including: Ras/MAP kinase, phosphatidylinositol 3-kinase and STAT transcription factors. The stimulated erythropoietin receptor appears to have a role in erythroid cell survival. Defects in the erythropoietin receptor may produce erythroleukemia and familial erythrocytosis. Dysregulation of this gene may affect the growth of certain tumors. Alternate splicing results in multiple transcript variants.

Basic Information

Description

Recombinant Human Erythropoietin R/EPO-R Protein is produced by HEK293 expression system. The target protein is expressed with sequence (Ala25-Pro250) of human EPO Receptor/EPOR (Accession #NP_000112.1) fused with an Fc, 6×His tag at the C-terminus.

Bio-Activity

Measured by its binding ability in a functional ELISA. Immobilized Human EPO Protein at 2μg/mL (100 μL/well) can bind EPOR with a linear range of 0.24-12.02 ng/mL.

Shipping

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt. After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week. Avoid repeated freeze/thaw cycles.

Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.

Product Information

Source HEK293 cells **Purification** ≥ 95 % as determined by SDS-PAGE.

Calculated MW 51.32 kDa **Observed MW** 55-60 kDa

Endotoxin

< 0.1 EU/μg of the protein by LAL method.

Formulation

Lyophilized from a 0.22 μm filtered solution of PBS, 0.1mM EDTA and 0.1% CHAPS, pH 7.4. Contact us for customized product form or formulation.

Reconstitution

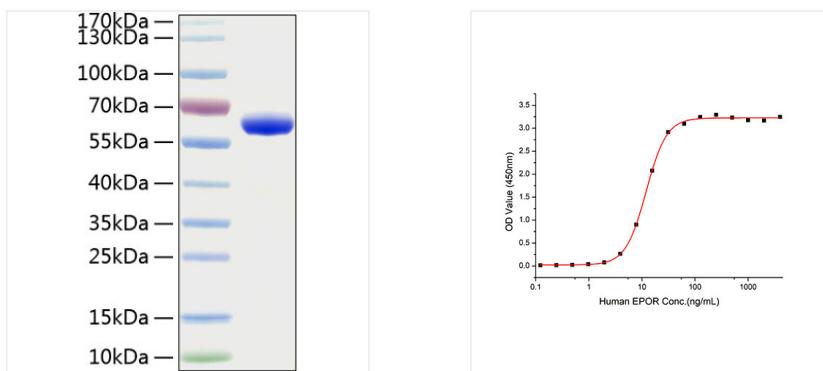
Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize freeze-thaw cycles.

Contact

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Validation Data



Recombinant Human Erythropoietin R/EPO-R Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.

Immobilized Human EPO Protein at 2 μ g/mL (100 μ L/well) can bind EPOR with a linear range of 0.24-12.02 ng/mL.