Recombinant Human Erythropoietin R/EPO-R Protein

Catalog No.: RP00111

Sequence Information

Species
Human

Gene ID
2057

Swiss Prot
P19235

Tags
C-hFc&His

Synonyms
EPOR,EPO-R

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 stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

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.

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
Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage
Store at -20℃

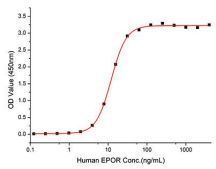
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

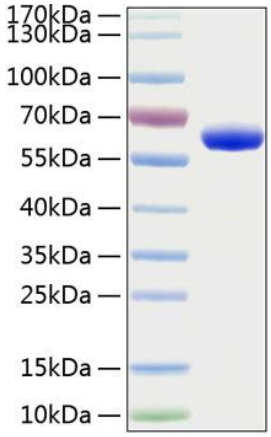
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Please visit http://abclonal.com for a complete listing of recommended products.

Validation Data



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



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