

Synonym

EPOR

Source

Human Erythropoietin R Protein, Fc Tag(ERR-H5253) is expressed from human 293 cells (HEK293). It contains AA Ala 25 - Pro 250 (Accession # [P19235-1](#)).
Predicted N-terminus: Ala 25

Molecular Characterization

EPO R(Ala 25 - Pro 250) P19235-1	Fc(Pro 100 - Lys 330) P01857
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This protein carries a human IgG1 Fc tag at the C-terminus.

The protein has a calculated MW of 51.3 kDa. The protein migrates as 58-63 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE) due to glycosylation.

Endotoxin

Less than 1.0 EU per µg by the LAL method / rFC method.

Purity

>90% as determined by SDS-PAGE.

Formulation

Lyophilized from 0.22 µm filtered solution in PBS, pH7.4 with trehalose as protectant.

Contact us for customized product form or formulation.

Reconstitution

Please see Certificate of Analysis for specific instructions.

For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.

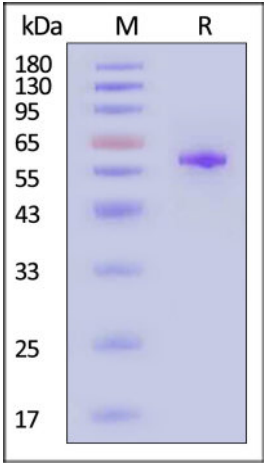
Storage

For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

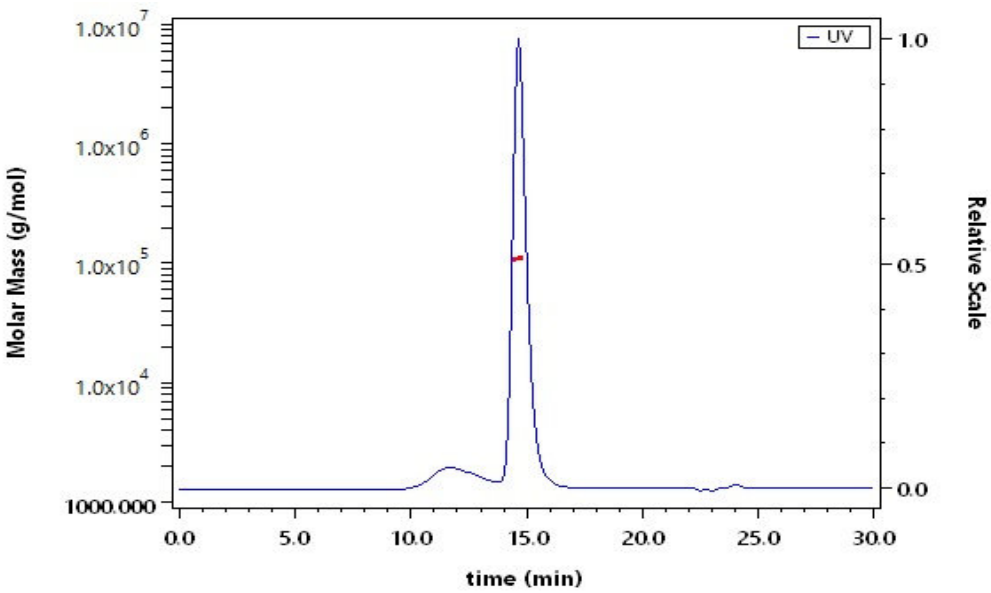
- This product is stable after storage at:
- 20°C to -70°C for 12 months in lyophilized state;
 - 70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE



Human Erythropoietin R Protein, Fc Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90% (With [Star Ribbon Pre-stained Protein Marker](#)).

SEC-MALS

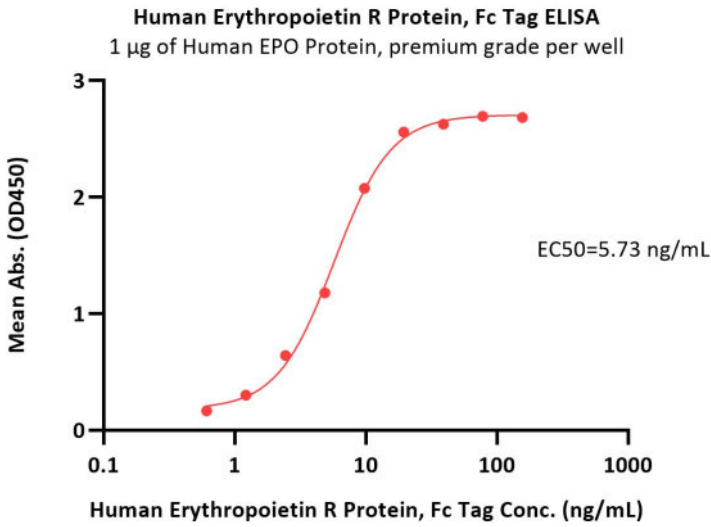


The purity of Human Erythropoietin R Protein, Fc Tag (Cat. No. ERR-H5253) is more than 85% and the molecular weight of this protein is around 100-120 kDa verified by SEC-MALS.

[Report](#)

Bioactivity-ELISA





Immobilized Human EPO Protein, premium grade (Cat. No. EPO-H4214) at 10 μ g/mL (100 μ L/well) can bind Human Erythropoietin R Protein, Fc Tag (Cat. No. ERR-H5253) with a linear range of 0.6-10 ng/mL (QC tested).

Background

This gene encodes the 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.

