



**Synonym**

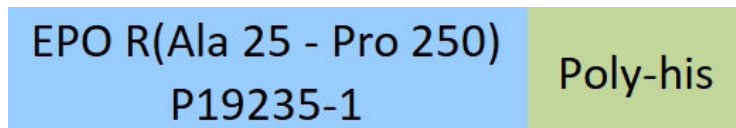
EPOR

**Source**

Human Erythropoietin R Protein, His Tag(EPR-H52H4) is expressed from human 293 cells (HEK293). It contains AA Ala 25 - Pro 250 (Accession # [P19235-1](#)).

Predicted N-terminus: Ala 25

**Molecular Characterization**



This protein carries a polyhistidine tag at the C-terminus.

The protein has a calculated MW of 26.7 kDa. The protein migrates as 30-32 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.

**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**

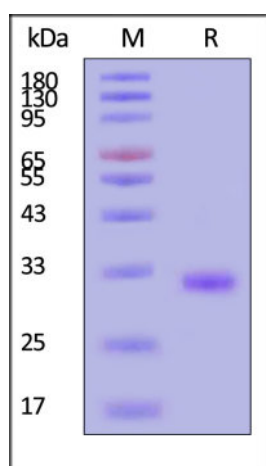
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

*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.

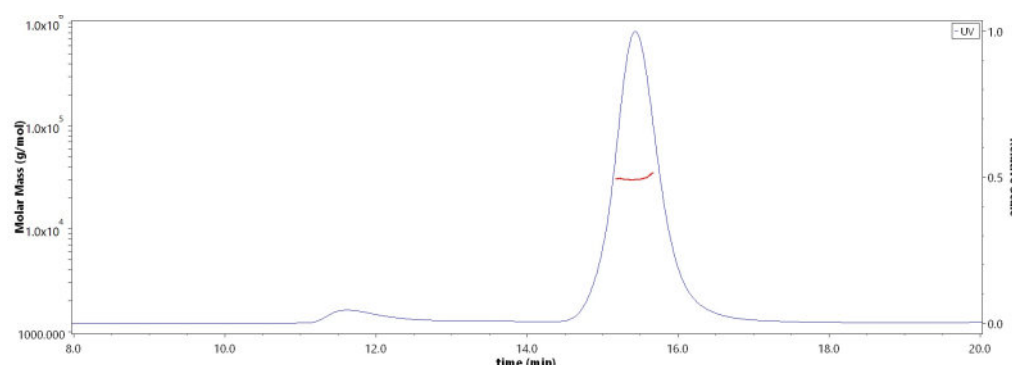
**SDS-PAGE**



Human Erythropoietin R Protein, His 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](#)).

**Bioactivity-SPR**

**SEC-MALS**

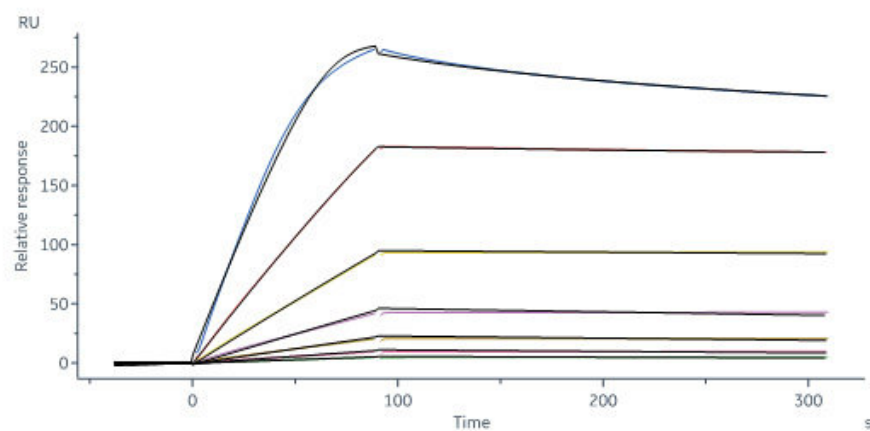


The purity of Human Erythropoietin R Protein, His Tag (Cat. No. EPR-H52H4) is more than 85% and the molecular weight of this protein is around 25-38 kDa verified by SEC-MALS.

[Report](#)

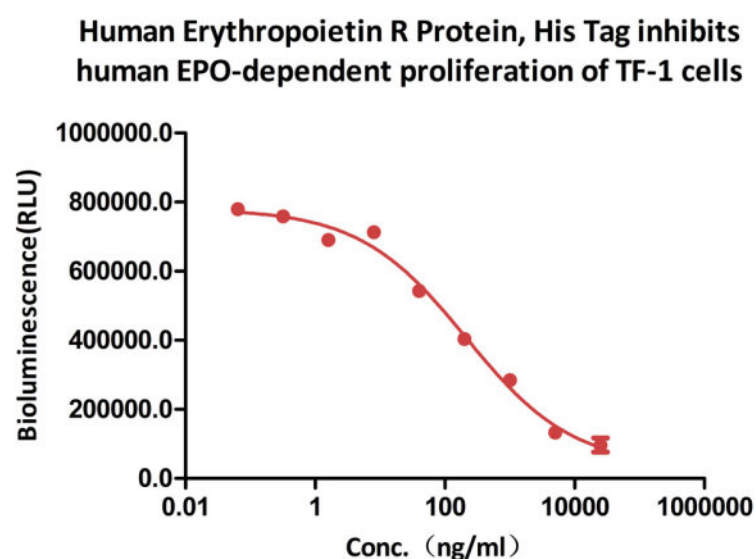
Discounts, Gifts,  
and more!





Human Erythropoietin R Protein, His Tag (Cat. No. EPR-H52H4) immobilized on CM5 Chip can bind Human EPO Protein, premium grade (Cat. No. EPO-H4214) with an affinity constant of 0.142 nM as determined in a SPR assay (Biacore 8K) (QC tested).

## Bioactivity-Bioactivity CELL BASE



Human Erythropoietin R Protein, His Tag (Cat. No. EPR-H52H4) inhibits human erythropoietin/EPO-dependent proliferation of TF-1 cells. The EC<sub>50</sub> is 211.1 ng/mL (Routinely 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, phosphat.

## Clinical and Translational Updates

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and more!

