



Synonym

MPL,C-MPL,CD110,MPLV,THCYT2,TPOR

Source

Mouse Thrombopoietin R Protein, His Tag(THR-M52H3) is expressed from human 293 cells (HEK293). It contains AA Gln 26 - Trp 482 (Accession # [Q08351-1](#)).

Predicted N-terminus: Gln 26

Molecular Characterization

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

The protein has a calculated MW of 53.1 kDa. The protein migrates as 55-65 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.

>90% as determined by SEC-MALS.

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

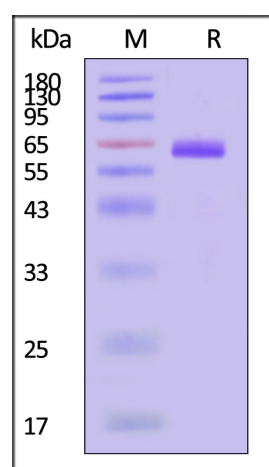
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

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.

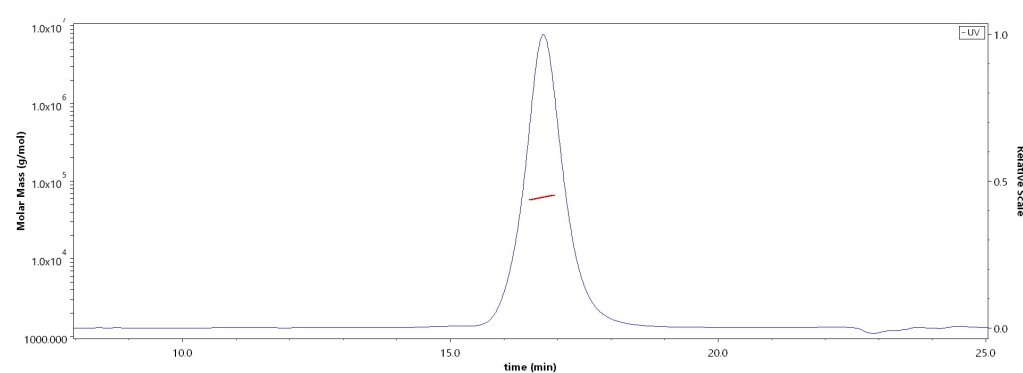
SDS-PAGE



Mouse Thrombopoietin 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 Mouse Thrombopoietin R Protein, His Tag (Cat. No. THR-M52H3) is more than 90% and the molecular weight of this protein is around 50-70 kDa verified by SEC-MALS.

[Report](#)

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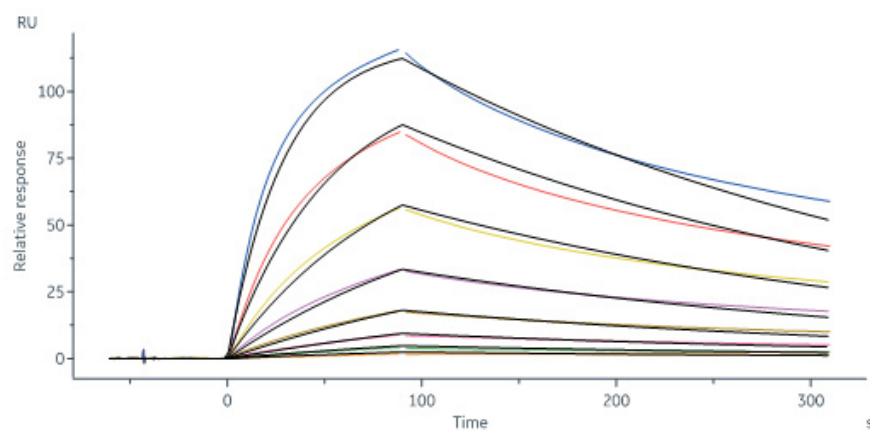


Mouse Thrombopoietin R Protein, His Tag (MALS & SPR verified)

Catalog # THR-M52H3



BIOSYSTEMS
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Mouse Thrombopoietin R Protein, His Tag (Cat. No. THR-M52H3) capture on NTA-Series S sensor chip can bind Human Thrombopoietin Protein, Tag Free with an affinity constant of 5.67 nM as determined in a SPR assay (Biacore 8K) (QC tested).

Background

Thrombopoietin R, also known as TPO-R, is expressed predominantly on the surface of MKs, platelets, hemangioblasts, and hematopoietic stem cells (HSCs). Binding of TPO to the megakaryocyte TPO-R leads to different effects: prevention of megakaryocyte apoptosis; increased megakaryocyte number, size, and ploidy; increasing rate of megakaryocyte maturation; and internalization of the TPO/TPO-R complex. Thrombopoietin R involved in multiple signal transduction pathways, such as JAK, STAT, and MAP kinase.

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