

Synonym

CD71, TFRC, TFR, sTfR, TfR1, Trfr, T9, p90

Source

Mouse Transferrin R Protein, Fc Tag(TFR-M5263) is expressed from human 293 cells (HEK293). It contains AA Cys 89 - Phe 763 (Accession # [Q62351-1](#)).

Predicted N-terminus: Pro

Molecular Characterization

Fc(Pro 100 - Lys 330) P01857	TfR(Cys 89 - Phe 763) Q62351-1
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This protein carries a human IgG1 Fc tag at the N-terminus.

The protein has a calculated MW of 102.3 kDa. The protein migrates as 105-125 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

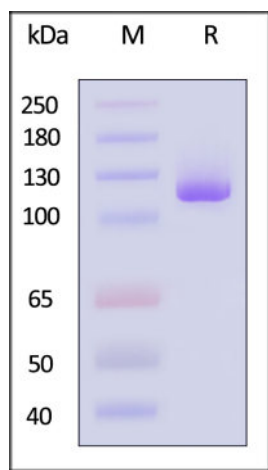
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

*Please avoid repeated freeze-thaw cycles.*

This product is stable after storage at:

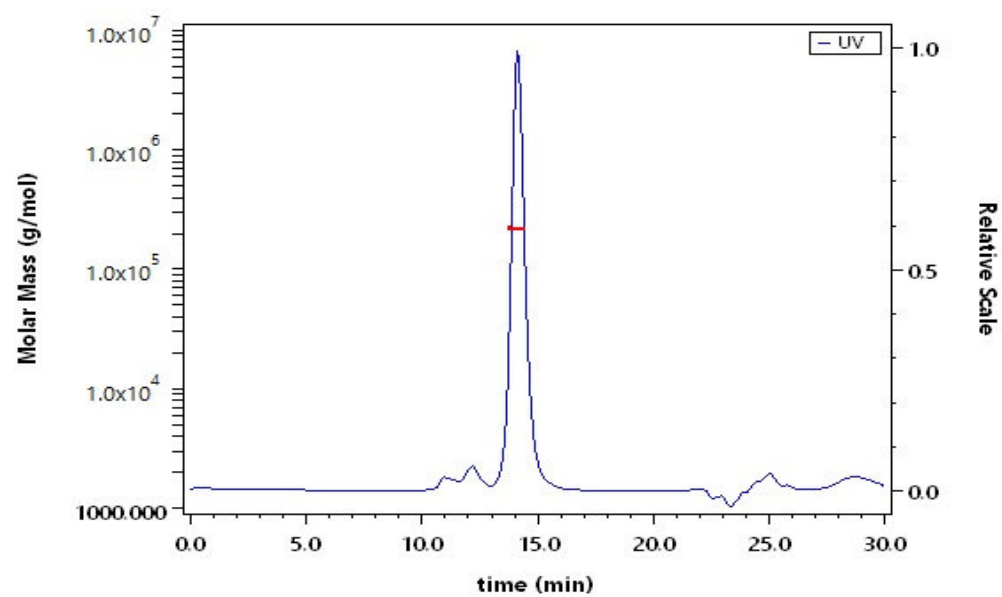
- 20°C to -70°C for 12 months in lyophilized state;
- 70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE



Mouse Transferrin 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



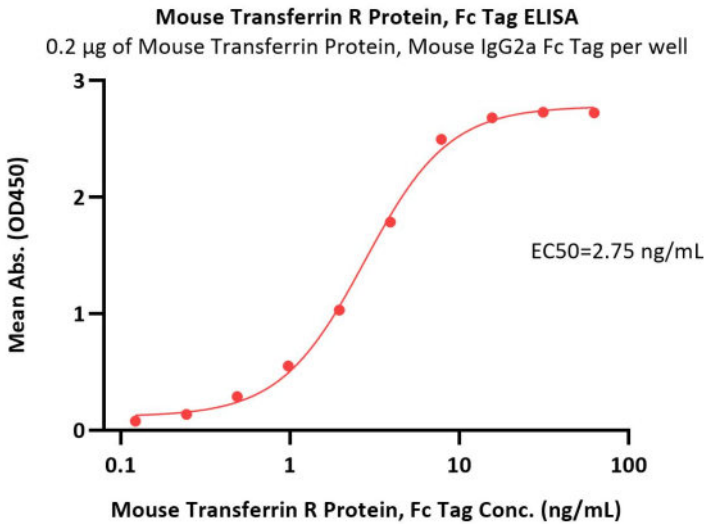
The purity of Mouse Transferrin R Protein, Fc Tag (Cat. No. TFR-M5263) is more than 85% and the molecular weight of this protein is around 210-250 kDa verified by SEC-MALS.

[Report](#)

Bioactivity-ELISA

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Immobilized Mouse Transferrin Protein, Mouse IgG2a Fc Tag (Cat. No. TRN-M525b) at 2 µg/mL (100 µL/well) can bind Mouse Transferrin R Protein, Fc Tag (Cat. No. TFR-M5263) with a linear range of 0.1-8 ng/mL (QC tested).

Background

CD antigen CD71 is also known as Transferrin receptor protein 1, TfR, sTfR, p90, TfR1, Trfr, which belongs to the peptidase M28 family and M28B subfamily. CD71 /TFR contains one PA (protease associated) domain. CD71 / TfR1 is required for iron delivery from transferrin to cells. CD71 is a potential new target in cases of human leukomia & lymphoma. CD71 /TFRC / TfR has been shown to interact with GABARAP and HFE.

