

**Synonym**

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

**Source**Mouse Transferrin R, His Tag(TFR-M524b) is expressed from human 293 cells (HEK293). It contains AA Cys 89 - Phe 763 (Accession # [Q62351-1](#)).

Predicted N-terminus: His

**Molecular Characterization**

Poly-his

TfR(Cys 89 - Phe 763)  
Q62351-1

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

The protein has a calculated MW of 77.8 kDa. The protein migrates as 80-90 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE) due to glycosylation.

The protein is designed as a dimer.

**Endotoxin**Less than 0.1 EU per  $\mu$ g by the LAL method / rFC method.**Purity**

&gt;95% as determined by SDS-PAGE.

&gt;95% as determined by SEC-MALS.

**Formulation**Lyophilized from 0.22  $\mu$ m 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.

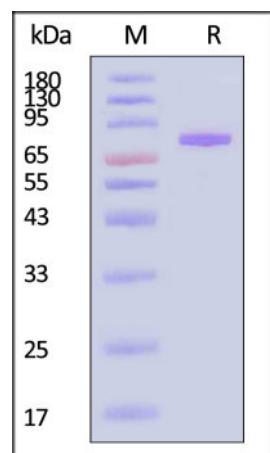
*For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.***Storage**

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

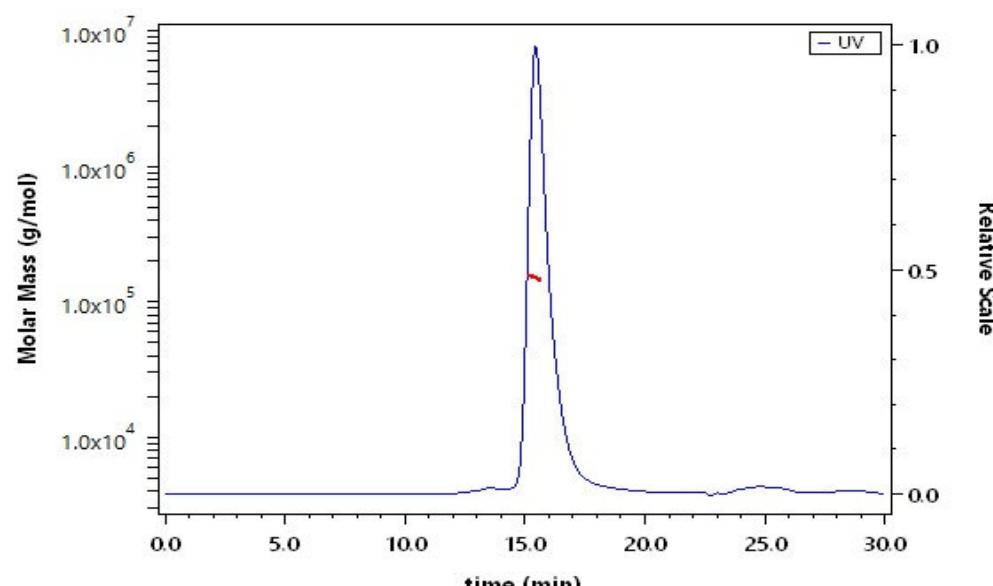
*Please avoid repeated freeze-thaw cycles.*

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.

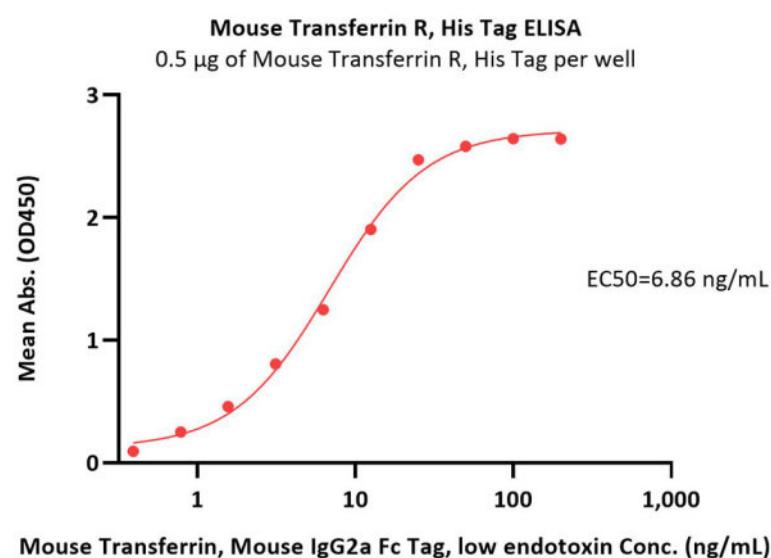
**SDS-PAGE**

Mouse Transferrin R, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95% (With [Star Ribbon Pre-stained Protein Marker](#)).

**SEC-MALS**

The purity of Mouse Transferrin R, His Tag (Cat. No. TFR-M524b) is more than 95% and the molecular weight of this protein is around 135-165 kDa verified by SEC-MALS.

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Immobilized Mouse Transferrin R, His Tag (Cat. No. TFR-M524b) at 5 µg/mL (100 µL/well) can bind Mouse Transferrin, Mouse IgG2a Fc Tag, low endotoxin (Cat. No. TRN-M525b) with a linear range of 0.4-25 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 leukemia & lymphoma. CD71 /TFRC / TfR has been shown to interact with GABARAP and HFE.

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