



## Synonym

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

## Source

Biotinylated Mouse Transferrin R, His Tag, primary amine labeling (TFR-M8249) is expressed from human 293 cells (HEK293). It contains AA Cys 89 - Phe 763 (Accession # [Q62351-1](#)). It is the biotinylated form of Mouse Transferrin R, His Tag (Cat. No. TFR-M524b)

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 80-100 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

The protein is designed as a dimer.

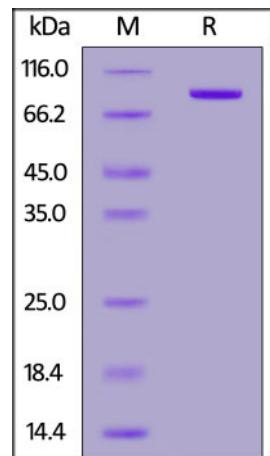
## Labeling

*The primary amines in the side chains of lysine residues and the N-terminus of the protein are conjugated with biotins using standard chemical labeling method. A standard biotin reagent (13.5 angstroms) is used in this product.*

## Protein Ratio

Passed as determined by the HABA assay / binding ELISA.

## SDS-PAGE



Biotinylated Mouse Transferrin R, His Tag, primary amine labeling on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95%.

## Purity

>95% as determined by SDS-PAGE.

>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

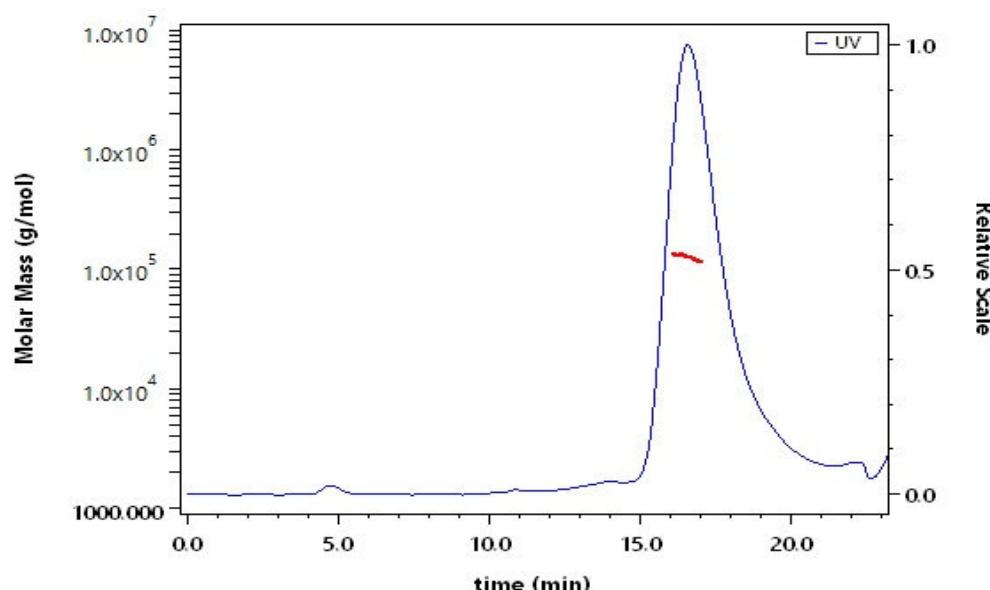
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

*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.

## SEC-MALS



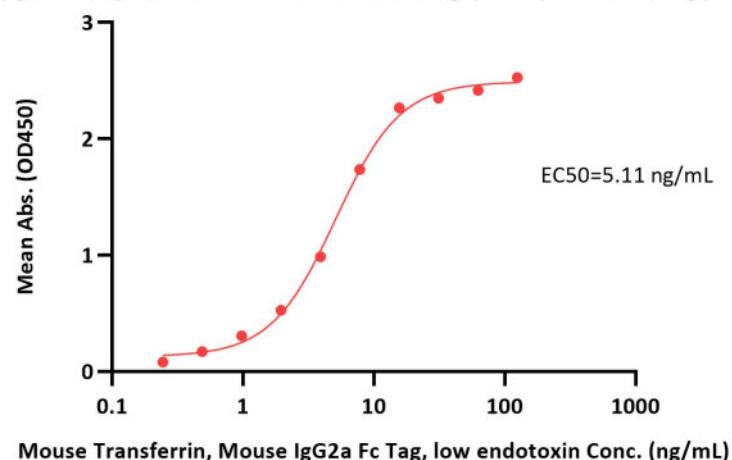
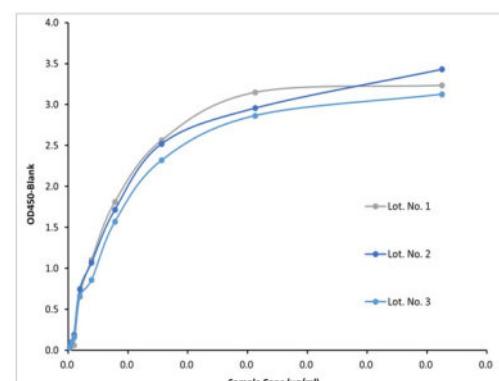
The purity of Biotinylated Mouse Transferrin R, His Tag, primary amine labeling (Cat. No. TFR-M8249) is more than 95% and the molecular weight of this protein is around 140-170 kDa verified by SEC-MALS.

[Report](#)

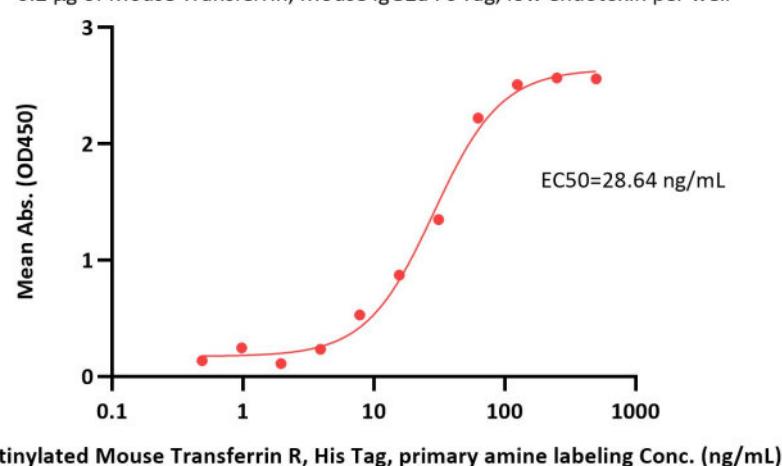
Discounts, Gifts,  
and more!



» [www.acrobiosystems.com](http://www.acrobiosystems.com)

**Bioactivity-ELISA****Biotinylated Mouse Transferrin R, His Tag, primary amine labeling ELISA**  
0.1 µg of Biotinylated Mouse Transferrin R, His Tag, primary amine labeling per well**Batch consistency**

Immobilized Biotinylated Mouse Transferrin R, His Tag, primary amine labeling (Cat. No. TFR-M8249) at 1 µg/mL (100 µL/well) on streptavidin (Cat. No. STN-N5116) precoated (0.5 µg/well) plate can bind Mouse Transferrin, Mouse IgG2a Fc Tag, low endotoxin (Cat. No. TRN-M525b) with a linear range of 0.2-16 ng/mL (QC tested).

**Biotinylated Mouse Transferrin R, His Tag, primary amine labeling ELISA**  
0.2 µg of Mouse Transferrin, Mouse IgG2a Fc Tag, low endotoxin per well

Immobilized Mouse Transferrin, Mouse IgG2a Fc Tag, low endotoxin (Cat. No. TRN-M525b) at 2 µg/mL (100 µL/well) can bind Biotinylated Mouse Transferrin R, His Tag, primary amine labeling (Cat. No. TFR-M8249) with a linear range of 0.5-63 ng/mL (Routinely 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.

**Discounts, Gifts,  
and more!**