



**Synonym**

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

**Source**

Human Transferrin R Protein, Fc Tag(TFR-H5264) is expressed from human 293 cells (HEK293). It contains AA Cys 89 - Phe 760 (Accession # [P02786-1](#)).

Predicted N-terminus: Cys 89

**Molecular Characterization**

TfR(Cys 89 - Phe 760) P02786-1	Fc(Pro 100 - Lys 330) P01857
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This protein carries a human IgG1 Fc tag at the C-terminus.

The protein has a calculated MW of 101.6 kDa. The protein migrates as 95-120 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**

>95% 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**

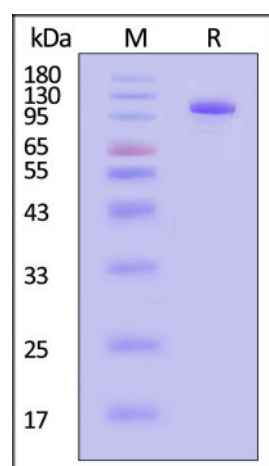
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

*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.

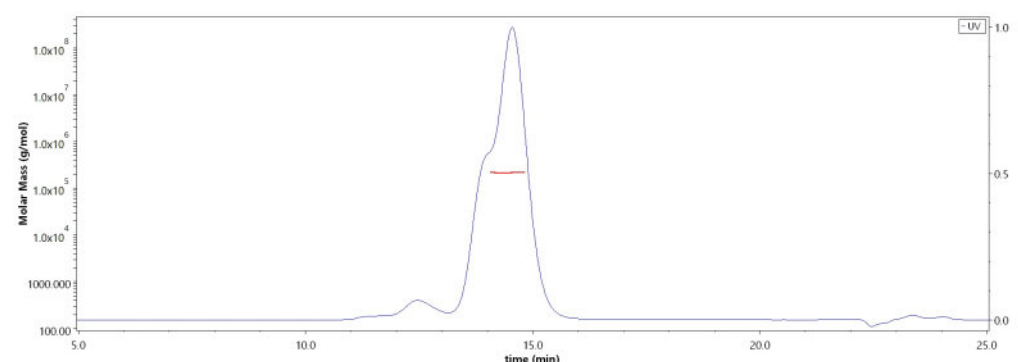
**SDS-PAGE**



Human 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 95% (With [Star Ribbon Pre-stained Protein Marker](#)).

**Bioactivity-ELISA**

**SEC-MALS**



The purity of Human Transferrin R Protein, Fc Tag (Cat. No. TFR-H5264) is more than 85% and the molecular weight of this protein is around 200-240 kDa verified by SEC-MALS.

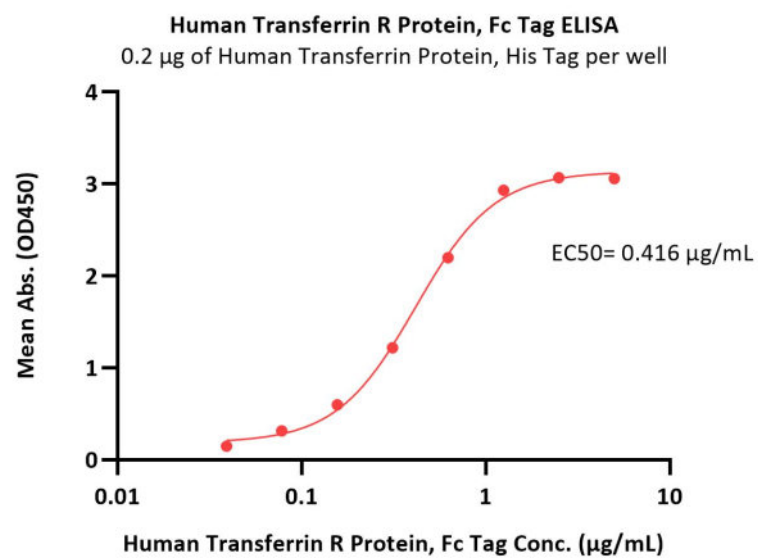
[Report](#)

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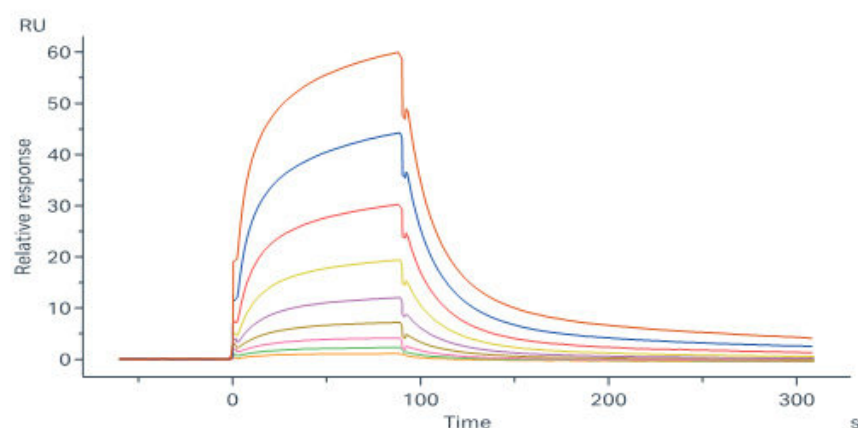
# Human Transferrin R / CD71 Protein, Fc Tag (MALS verified)

Catalog # TFR-H5264



Immobilized Human Transferrin Protein, His Tag (Cat. No. TRN-H52H3) at 2 µg/mL (100 µL/well) can bind Human Transferrin R Protein, Fc Tag (Cat. No. TFR-H5264) with a linear range of 0.039-0.625 µg/mL (QC tested).

## Bioactivity-SPR



Human Transferrin R Protein, Fc Tag (Cat. No. TFR-H5264) captured on Protein A Chip can bind Human Transferrin, His Tag (Cat. No. TRN-H4229) with an affinity constant of 0.491 µM as determined in a SPR assay (Biacore 8K) (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 leukemia & lymphoma. CD71 /TFRC / TfR has been shown to interact with GABARAP and HFE.

## Clinical and Translational Updates

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and more!

