



**Synonym**

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

**Source**

Biotinylated Human Transferrin R Protein, Fc,Avitag(TFR-H82F3) is expressed from human 293 cells (HEK293). It contains AA Cys 89 - Phe 760 (Accession # [P02786-1](#)).

Predicted N-terminus: Pro

**Molecular Characterization**



This protein carries a human IgG1 Fc tag at the N-terminus, followed by an Avi tag (Avitag™).

The protein has a calculated MW of 103.3 kDa. The protein migrates as 110-130 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE) due to glycosylation.

**Labeling**

*Biotinylation of this product is performed using Avitag™ technology. Briefly, the single lysine residue in the Avitag is enzymatically labeled with biotin.*

**Protein Ratio**

Passed as determined by the HABA assay / binding ELISA.

**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**

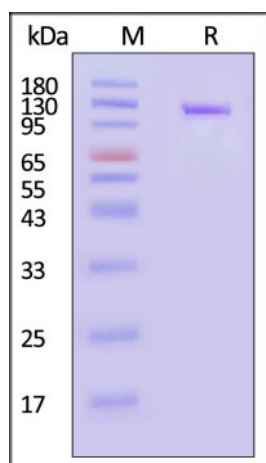
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

*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**

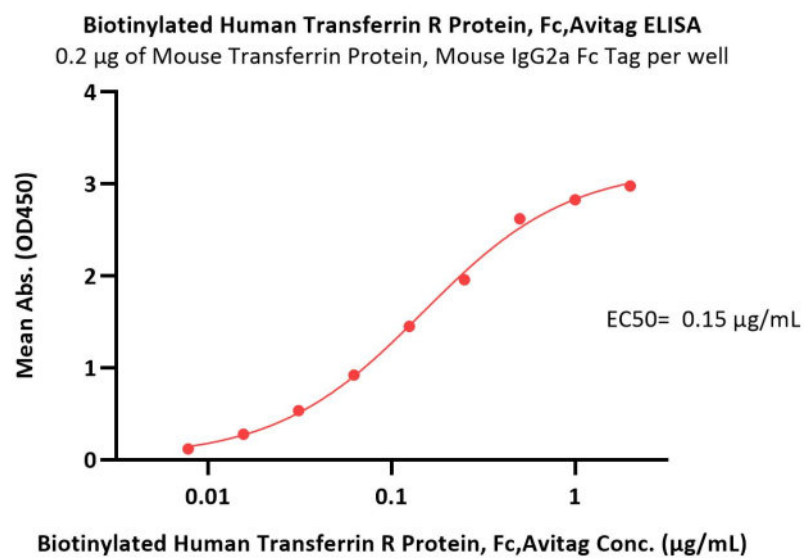


Biotinylated Human Transferrin R Protein, Fc,Avitag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95% (With [Star Ribbon Pre-stained Protein Marker](#)).

**Bioactivity-ELISA**

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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 Biotinylated Human Transferrin R Protein, Fc,Avitag (Cat. No. TFR-H82F3) with a linear range of 0.0078-0.5 µg/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.

## Clinical and Translational Updates

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