

## Transferrin Receptor/TFRC Dimer Protein, Human, Recombinant (His)

### General Information

Synonyms:	CD71;transferrin receptor;TFR;T9;p90;TFR1;TR;TRFR
Protein Construction:	Cys89-Phe760
Species:	Human
Expression Host:	HEK293 Cells
Accession:	P02786
Molecular Weight:	77.25 kDa (Predicted); 78-90 kDa (Due to glycosylation); 125-180 kDa (SEC-MALS)

### QC Testing

Biological Activity:	Immobilized Human Transferrin R, His Tag at 2 µg/ml (100 µl/well) on the plate. Dose response curve for Biotinylated Human Transferrin, His Avi Tag with the EC50 of 14.3 ng/ml determined by ELISA. (QC Test) Immobilized Human Transferrin R, His Tag at 1 µg/ml (100 µl/well) on the plate. Dose response curve for Anti-Transferrin R Antibody, hFc Tag with the EC50 of 6.8 ng/ml determined by ELISA. Loaded Anti-Transferrin R Antibody, hFc Tag on ProA-Biosensor can bind Human Transferrin R, His Tag with an affinity constant of 0.65 nM as determined in BLI assay (Gator® Prime).
Purity:	> 90% as determined by Bis-Tris PAGE; > 95% as determined by HPLC
Endotoxin:	< 0.1 EU/µg of the protein as determined by the LAL method.
Formulation:	Lyophilized from 0.22 µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.

### Preparation and Storage

#### Reconstitution:

Reconstitute the lyophilized protein in sterile deionized water. The product concentration should not be less than 100 µg/mL. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

#### Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

#### Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

### Protein Background

## A DRUG SCREENING EXPERT

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The transferrin receptor (CD71) is known as a receptor for IgA1 on mesangial cells. The transcript and protein expression of glomerular CD71 was determined by real-time polymerase chain reaction and immunohistochemistry. Human mesangial cells (HMCs) were treated with sera from IgAN patients and expression levels of CD71 and inflammatory cytokine markers were compared according to disease status.

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