

Recombinant Human sTfR/CD71 Protein

Catalog No.: RP00371 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Human	7037	P02786-1

Tags

C-hFc

Synonyms

TR; TfR1; CD71; sTfR; T9; p90; TFRC;
TFR; Transferrin R

Product Information

Source	Purification
HEK293 cells	> 95% by SDS-PAGE

Endotoxin

< 1 EU/μg of the protein by LAL method

Formulation

Lyophilized from 0.22 μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.

Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

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Background

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.

Basic Information

Description

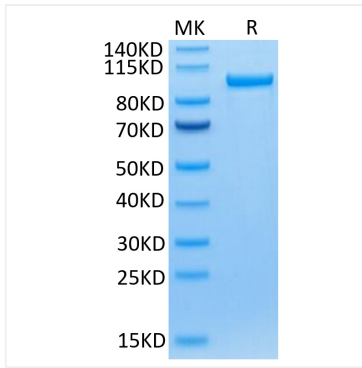
Recombinant Human Transferrin R/CD71 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Cys89-Phe760) of Human Transferrin R/CD71 (Accession #P02786-1) fused with a C-hFc tag at the C-terminus.

Bio-Activity

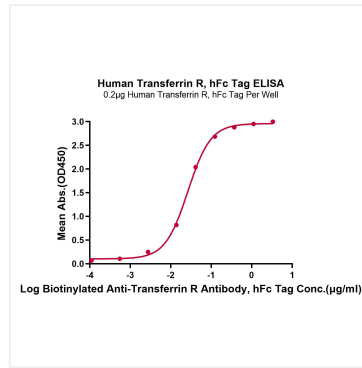
Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt. After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week. Avoid repeated freeze/thaw cycles.

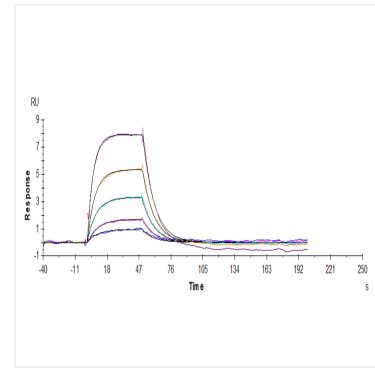
Validation Data



Human Transferrin R on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.



Immobilized Human Transferrin R, hFc Tag at 2 µg/mL (100 µL/well) on the plate. Dose response curve for Biotinylated Anti-Transferrin R Antibody, hFc Tag with the EC_{50} of 26.5ng/mL determined by ELISA (QC Test).



Human Transferrin R, hFc Tag captured on CM5 Chip via Anti-Fc Antibody can bind Human Transferrin, His Tag with an affinity constant of 0.1µM as determined in SPR assay (Biacore T200).