

Recombinant Human sTfR/CD71 Protein

Catalog No.: RP00371 **Recombinant**

Sequence Information

Species Human **Gene ID** 7037 **Swiss Prot** P02786-1

Tags

C-hFc

Synonyms

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

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

Shipping

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

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.

Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.

Product Information

Source

HEK293 cells

Purification

≥ 95 % as determined by SDS-PAGE.

Calculated MW

101.8 kDa

Observed MW

105-115 kDa

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.

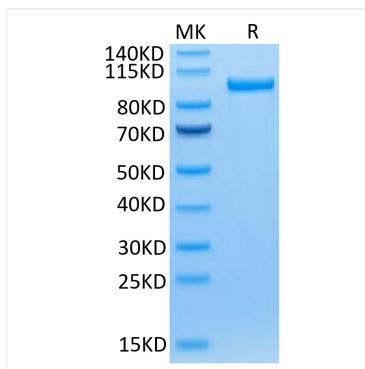
Reconstitution

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.

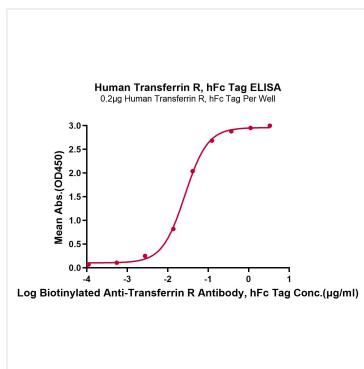
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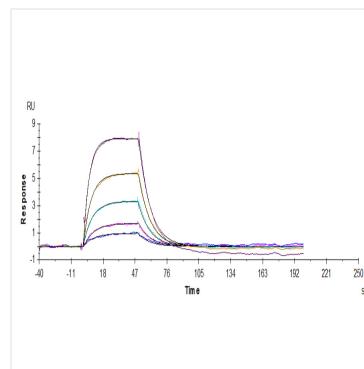
Validation Data



Recombinant Human sTfR/CD71 Protein was determined by Tris-Bis PAGE under reducing conditions.



Immobilized Human Transferrin R, hFc Tag at 2 μ g/mL (100 μ L/well) on the plate. Dose response curve for Biotinylated Anti-Transferrin R Antibody, hFc Tag with the EC₅₀ 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 0.1 μ M as determined in SPR assay (Biacore T200).