Recombinant Human sTfR/CD71 Protein

Catalog No.: RP00371

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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

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 stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

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.

Activity

Shipping
Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage
Store at -20℃

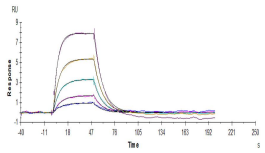
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

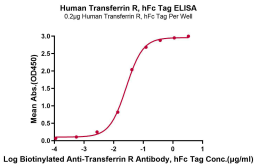
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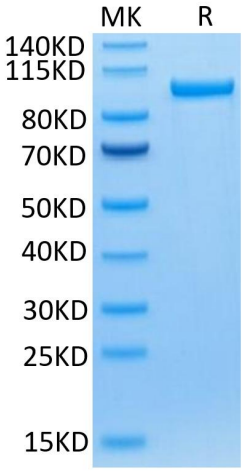
Validation Data



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).



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).



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