

RP00085

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Recombinant Human sTfR/CD71 Protein

Catalog No.: RP00085

Recombinant

1 Publications

Sequence Information

Species	Gene ID	Swiss Prot
HEK293 cells	7037	P02786

Tags

C-His

Synonyms

TFRC; CD71; IMD46; T9; TFR; TFR1; TR; TRFR; p90; transferrin receptor;CD71;IMD46;T9;TFR;TFR1;TR;TFR;p90

Product Information

Source

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.

Purification

≥ 95 % as determined by SDS-PAGE; ≥ 90 % as determined by HPLC.

Endotoxin

< 0.1 EU/μg of the protein by LAL method.

Formulation

Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4. Contact us for customized product form or formulation.

Reconstitution

Background

This protein is a cell surface receptor necessary for cellular iron uptake by the process of receptor-mediated endocytosis. This receptor is required for erythropoiesis and neurologic development. Multiple alternatively spliced variants have been identified.

Basic Information

Description

Recombinant Human sTfR/CD71 Protein is produced by HEK293 expression system. The target protein is expressed with sequence (Cys89-Phe760) of human sTfR (Accession #NP_001121620.1) fused with a 6×His tag at the C-terminus.

Bio-Activity

Measured by its binding ability in a functional ELISA. Immobilized Recombinant human Transferrin at 2 μg/mL (100 μL/well) can bind Recombinant human TfR with a linear range of 4-17 ng/mL.

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.

Operational Notes

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

Storage

Store at -20°C
Avoid repeated freeze/thaw cycles.

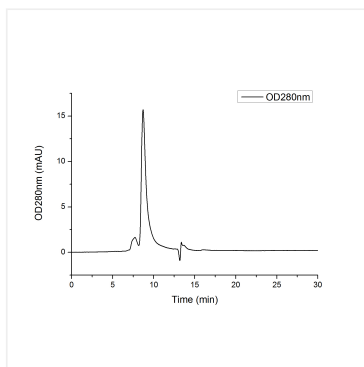
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Contact

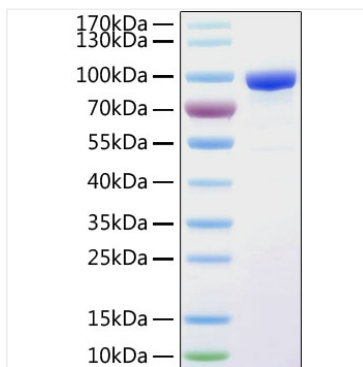


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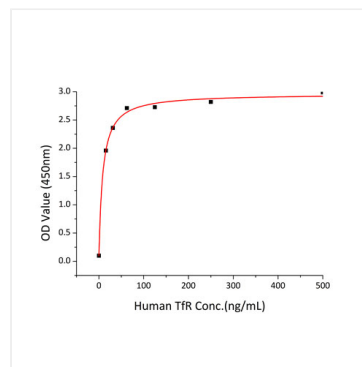
Validation Data



The purity of Human sTfR Protein (Cat.RP00085) was greater than 90% as determined by SEC-HPLC.



Recombinant Human sTfR/CD71 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.



Immobilized Recombinant human Transferrin at 2 $\mu\text{g/mL}$ (100 $\mu\text{L/well}$) can bind Recombinant human TfR with a linear range of 4-17 ng/mL.