Recombinant Human sTfR/CD71 Protein

Catalog No.: RP00085

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Sequence Information

Species
Human

Gene ID
7037

Swiss Prot
P02786

Tags
C-His

Synonyms
TFRC, CD71, IMD46, T9, TFR, TFR1, TR, TRFR, p90, transferrin receptor, CD71,IMD46,T9,TFR,TFR1,TR,TRFR, p90

Product Information

Source
HEK293 cells

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

Calculated MW
76.01 kDa

Observed MW
85 kDa

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
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

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.

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.

Storage
Store at -20℃

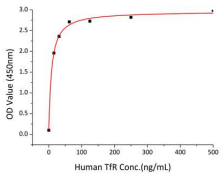
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

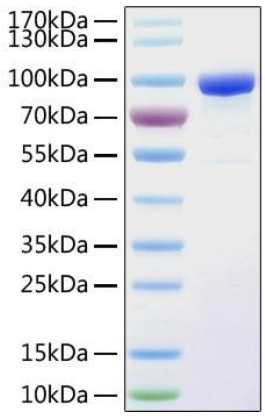
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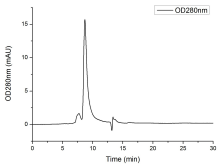
Validation Data



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.



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



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