

Recombinant Human Transferrin/TF Protein

Catalog No.: RP00997 Recombinant

Sequence Information

Species Gene ID Swiss Prot Human 7018 P02787

Tags

C-His

Synonyms

HEL-

S-71p;PRO1557;PRO2086;TFQTL1;TF;Tra nsferrin

Product Information

Source

HEK293 cells

Purification

determined by

≥ 95 % as determined by SDS-PAGE;≥95 % as

HPLC.

Calculated MW Observed MW

76.02 kDa 76-90 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.

Contact

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Background

Basic Information

Description

Recombinant Human Transferrin/TF Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Val20-Pro698) of human Transferrin (Accession #NP_001054.1) fused with a $6 \times \text{His}$ tag at the C-terminus.

Bio-Activity

1.Measured in a serum-free cell proliferation assay using MCF-7 human breast cancer cells. The ED $_{50}$ for this effect is 0.075-0.3 ng/mL.|2.Measured by its binding ability in a functional ELISA. Immobilized Recombinant human Transferrin at 2 μ g/mL (100 μ L/well) can bind Recombinant human TfR with a linear range of 4-17 ng/mL.

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.

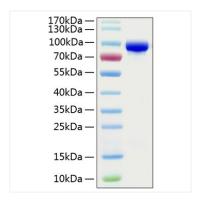
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

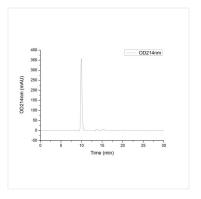
Operational Notes

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

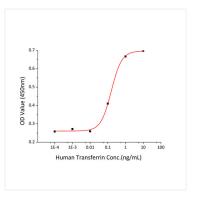
Validation Data



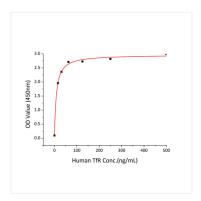
Recombinant Human Transferrin/TF Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.



The purity of Human Transferrin Protein (Cat.RP00997) was greater than 95% as determined by SEC-HPLC.



Recombinant Human Transferrin promotes the proliferation of MCF-7 human breast cancer cells. The ED_{50} for this effect is 0.075-0.3 ng/mL.



Immobilized Recombinant human Transferrin at 2 μ g/mL (100 μ L/well) can bind Recombinant human TfR with a linear range of 4-17 ng/mL.