

# 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;Transferrin

## Product Information

Source	Purification
HEK293 cells	> 97% by SDS-PAGE.

### 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 stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize freeze-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×His tag at the C-terminus.

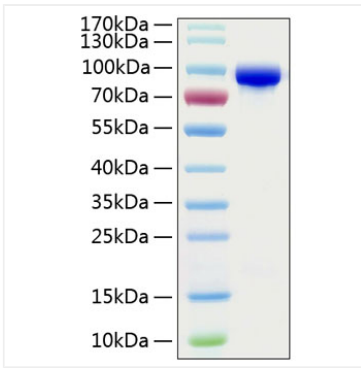
#### Bio-Activity

1. Measured in a serum-free cell proliferation assay using MCF-7 human breast cancer cells. The ED<sub>50</sub> 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 μg/mL (100 μL/well) can bind Recombinant human TfR with a linear range of 4-17 ng/mL.

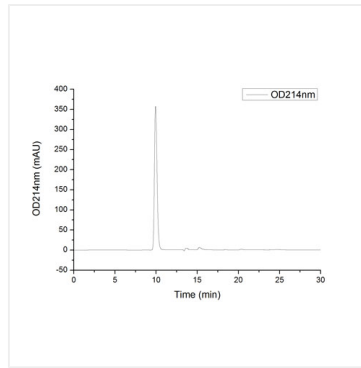
#### Storage

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.

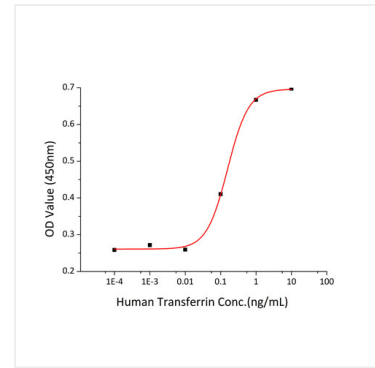
## Validation Data



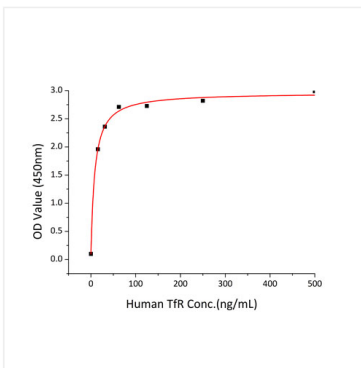
Recombinant Human Transferrin/TF Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 76-90 kDa.



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<sub>50</sub> for this effect is 0.075-0.3 ng/mL.



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