

# Recombinant Mouse sTfR/CD71 Protein

Catalog No.: RP01497 **Recombinant**

## Sequence Information

Species	Gene ID	Swiss Prot
Mouse	22042	Q62351

### Tags

C-His

### Synonyms

CD71;IMD46;p90;T9;TFR;TFR1;TR;TRFR;TFR  
FRC

## Product Information

Source	Purification
HEK293 cells	> 95% by SDS-PAGE.

Calculated MW	Observed MW
76.74 kDa	80-90 kDa

### Endotoxin

<0.1EU/μg

### Formulation

Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.

### 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 free-thaw cycles.

## Contact

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## 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 Mouse sTfR/CD71 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Cys89-Phe763) of mouse Transferrin R/CD71 (Accession #NP\_035768.1) fused with a 6×His tag at the C-terminus.

### Bio-Activity

Measured by its binding ability in a functional ELISA. Immobilized Mouse sTfR/CD71 (Catalog: RP01497) at 5 μg/mL (100 μL/well) can bind Mouse Transferrin/TF (Catalog: RP01603) with a linear range of 0.002-1.8 ng/mL.

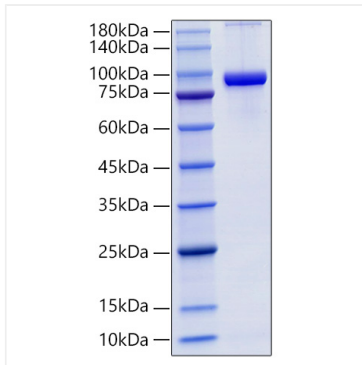
### Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

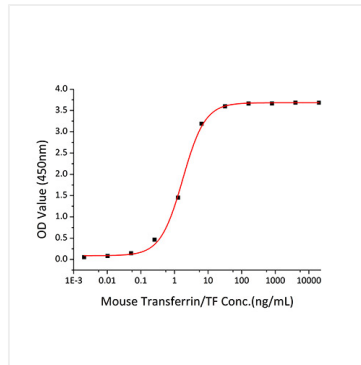
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

## Validation Data



Recombinant Mouse sTfR/CD71 Protein was resolved with SDS PAGE under reducing (R) conditions



Immobilized Mouse sTfR/CD71 (Catalog: RP01497) at 5  $\mu\text{g/mL}$  (100  $\mu\text{L}$ /well) can bind Mouse Transferrin/TF (Catalog: RP01603) with a linear range of 0.002-1.8 ng/mL.