

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

Product Information

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

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.

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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.

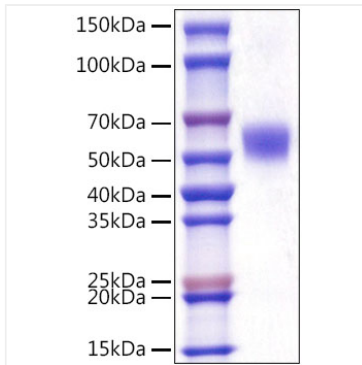
Bio-Activity

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.

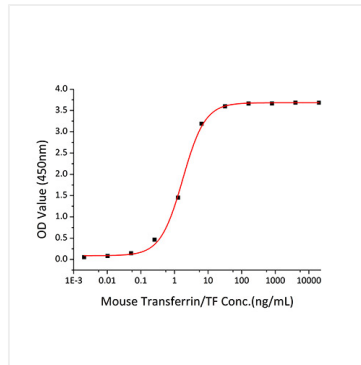
Storage

Store the lyophilized protein at -20°C to -80°C for 12 months. 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 determined by SDS-PAGE with Coomassie Blue, showing a band at 80-90kDa.



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