

Active Recombinant Rat Tfrc Protein, His-tagged

Cat. No. Tfrc-11163R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Rat Transferrin R, His Tag is expressed from human 293 cells (HEK293). It contains AA Gly 87 - Phe 761 (Accession # Q99376-1). This protein carries a polyhistidine tag at the N-terminus. Predicted N-terminus: His
Species	Rat
Source	HEK293
ProteinLength	87-761 aa
Description	CD antigen CD71 is also known as Transferrin receptor protein 1, TfR, sTfR, p90, TfR1, Trfr, which belongs to the peptidase M28 family and M28B subfamily. CD71 /TfR contains one PA (protease associated) domain. CD71/TfR1 is required for iron delivery from transferrin to cells. CD71 is a potential new target in cases of human leukemia & lymphoma. CD71 /TFRC/TfR has been shown to interact with GABARAP and HFE.
Form	Lyophilized from 0.22 µm filtered solution in PBS, pH7.4 with trehalose as protectant.
Bio-activity	Immobilized Rat Transferrin R, His Tag at 5 µg/mL (100 µL/well) can bind Mouse Transferrin, Mouse IgG2a Fc Tag with a linear range of 0.3-20 ng/mL.
Molecular Mass	The protein has a calculated MW of 78.1 kDa. The protein migrates as 80-90 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

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Endotoxin	Less than 1.0 EU/μg by the LAL method/rFC method.
Purity	>95% as determined by SDS-PAGE.
Storage	This product is stable after storage at: -20 to -70 centigrade for 12 months in lyophilized state; -70 centigrade for 3 months under sterile conditions after reconstitution. For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower. Please avoid repeated freeze-thaw cycles.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 μg/μL. Centrifuge the vial at 4 centigrade before opening to recover the entire contents.

GENE INFORMATION

Gene Name	Tfrc transferrin receptor [Rattus norvegicus]
Official Symbol	Tfrc
Synonyms	TFRC; transferrin receptor; transferrin receptor protein 1; TR; tfr; tfr1; Trfr;
Gene ID	64678
mRNA Refseq	NM_022712
Protein Refseq	NP_073203
UniProt ID	Q99376

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