Datasheet for ABIN7563962

Transferrin Receptor Protein (AA 1-763) (His tag)

3 Images

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Overview

Quantity:	1 mg
Target:	Transferrin Receptor (TFRC)
Protein Characteristics:	AA 1-763
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Transferrin Receptor protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant Tfrc Protein expressed in mammalian cells.
Sequence:	MMDQARSAFS NLFGGEPLSY TRFSLARQVD GDNSHVEMKL AADEEENADN NMKASVRKPK RFNGRLCFAA IALVIFFLIG FMSGYLGYCK RVEQKEECVK LAETEETDKS ETMETEDVPT SSRLYWADLK TLLSEKLNSI EFADTIKQLS QNTYTPREAG SQKDESLAYY IENQFHEFKF SKVWRDEHYV KIQVKSSIGQ NMVTIVQSNG NLDPVESPEG YVAFSKPTEV SGKLVHANFG TKKDFEELSY SVNGSLVIVR AGEITFAEKV ANAQSFNAIG VLIYMDKNKF PVVEADLALF GHAHLGTGDP YTPGFPSFNH TQFPPSQSSG LPNIPVQTIS RAAAEKLFGK MEGSCPARWN IDSSCKLELS QNQNVKLIVK NVLKERRILN IFGVIKGYEE PDRYVVVGAQ RDALGAGVAA KSSVGTGLLL KLAQVFSDMI SKDGFRPSRS IIFASWTAGD FGAVGATEWL EGYLSSLHLK AFTYINLDKV VLGTSNFKVS ASPLLYTLMG KIMQDVKHPV DGKSLYRDSN WISKVEKLSF DNAAYPFLAY SGIPAVSFCF CEDADYPYLG TRLDTYEALT QKVPQLNQMV RTAAEVAGQL IIKLTHDVEL NLDYEMYNSK LLSFMKDLNQ FKTDIRDMGL SLQWLYSARG DYFRATSRLT TDFHNAEKTN RFVMREINDR IMKVEYHFLS PYVSPRESPF RHIFWGSGSH TLSALVENLK

Product Details

	LRQKNITAFN ETLFRNQLAL ATWTIQGVAN ALSGDIWNID NEF **Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.**
Specificity:	If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.
Characteristics:	Key Benefits: • Made to order protein - from design to production - by highly experienced protein experts. • Protein expressed in mammalian cells and purified in one-step affinity chromatography • The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins. • State-of-the-art algorithm used for plasmid design (Gene synthesis). This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein. If you are not interested in a full length protein, please contact us for individual protein fragments. The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.
Purity:	> 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)
Grade:	custom-made

Target Details

Target:	Transferrin Receptor (TFRC)
Alternative Name:	Tfrc (TFRC Products)
Background:	Transferrin receptor protein 1 (TR) (TfR) (TfR1) (Trfr) (CD antigen CD71),FUNCTION: Cellular uptake of iron occurs via receptor-mediated endocytosis of ligand-occupied transferrin receptor into specialized endosomes (By similarity). Endosomal acidification leads to iron release. The apotransferrin-receptor complex is then recycled to the cell surface with a return to neutral pH and the concomitant loss of affinity of apotransferrin for its receptor. Transferrin receptor is necessary for development of erythrocytes and the nervous system (By similarity). Upon stimulation, positively regulates T and B cell proliferation through iron uptake

Target Details

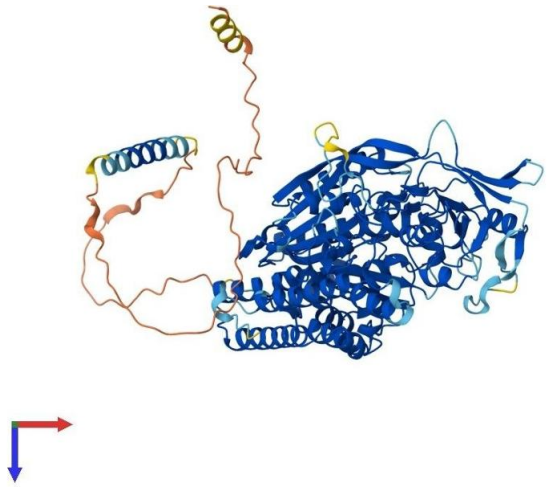
	(PubMed:26642240). Acts as a lipid sensor that regulates mitochondrial fusion by regulating activation of the JNK pathway (By similarity). When dietary levels of stearate (C18:0) are low, promotes activation of the JNK pathway, resulting in HUWE1-mediated ubiquitination and subsequent degradation of the mitofusin MFN2 and inhibition of mitochondrial fusion (By similarity). When dietary levels of stearate (C18:0) are high, TFRC stearoylation inhibits activation of the JNK pathway and thus degradation of the mitofusin MFN2 (By similarity). {ECO:0000250, ECO:0000269|PubMed:10192390, ECO:0000269|PubMed:26642240}.
Molecular Weight:	85.7 kDa
UniProt:	Q62351
Pathways:	Transition Metal Ion Homeostasis

Application Details

Application Notes:	We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
Restrictions:	For Research Use only

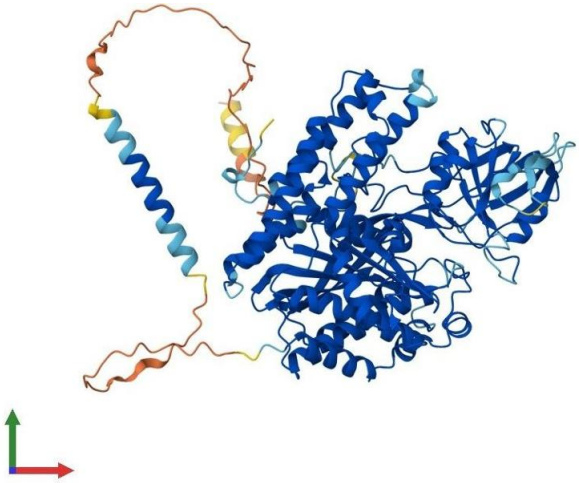
Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months



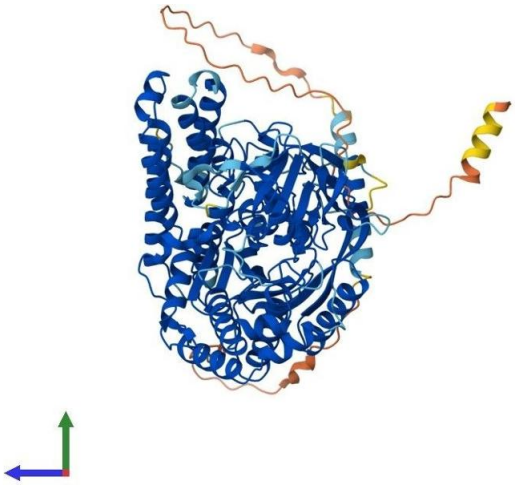
Protein Structure

Image 1. AlphaFold protein structure predicition of Mouse Recombinant Tfrc Protein, UniprotID Q62351



Protein Structure

Image 2. AlphaFold protein structure predicition of Mouse Recombinant Tfrc Protein, UniprotID Q62351



Protein Structure

Image 3. AlphaFold protein structure predicition of Mouse Recombinant Tfrc Protein, UniprotID Q62351

