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Transferrin Receptor Protein (AA 89-763) (His tag)

3 Images



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Overview

Quantity:	1 mg
Target:	Transferrin Receptor (TFRC)
Protein Characteristics:	AA 89-763
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Transferrin Receptor protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

Product Details

Sequence:

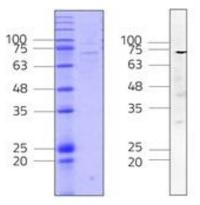
MHHHHHHCKR VEQKEECVKL AETEETDKSE TMETEDVPTS SRLYWADLKT LLSEKLNSIE FADTIKQLSQ NTYTPREAGS QKDESLAYYI ENQFHEFKFS KVWRDEHYVK IQVKSSIGQN MVTIVQSNGN LDPVESPEGY VAFSKPTEVS GKLVHANFGT KKDFEELSYS VNGSLVIVRA GEITFAEKVA NAQSFNAIGV LIYMDKNKFP VVEADLALFG HAHLGTGDPY TPGFPSFNHT QFPPSQSSGL PNIPVQTISR AAAEKLFGKM EGSCPARWNI DSSCKLELSQ NQNVKLIVKN VLKERRILNI FGVIKGYEEP DRYVVVGAQR DALGAGVAAK SSVGTGLLLK LAQVFSDMIS KDGFRPSRSI IFASWTAGDF GAVGATEWLE GYLSSLHLKA FTYINLDKVV LGTSNFKVSA SPLLYTLMGK IMQDVKHPVD GKSLYRDSNW ISKVEKLSFD NAAYPFLAYS GIPAVSFCFC EDADYPYLGT RLDTYEALTQ KVPQLNQMVR TAAEVAGQLI IKLTHDVELN LDYEMYNSKL LSFMKDLNQF KTDIRDMGLS LQWLYSARGD YFRATSRLTT DFHNAEKTNR FVMREINDRI MKVEYHFLSP YVSPRESPFR HIFWGSGSHT LSALVENLKL RQKNITAFNE TLFRNQLALA TWTIQGVANA LSGDIWNIDN EF

Product Details

Specificity:	N-terminal His-tag
Characteristics:	 Made in Germany - from design to production - by highly experienced protein experts. Mouse Tfrc Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade.
	State-of-the-art algorithm used for plasmid design (Gene synthesis).
	This made-to-order protein has already been successfully produced. Please let us know if you
	are interested in purchasing a smaller amount of this protein. We will check our stock and make
	you a customized quote in case we can provide this protein in a smaller amount
	When you order this made-to-order protein you will only pay upon receival of the correctly
	folded protein. With no financial risk on your end you can rest assured that our experienced
	protein experts will do everything to make sure that you receive the protein you ordered.
	The concentration of our recombinant proteins is measured using the absorbance at 280nm.
	The protein's absorbance will be measured in several dilutions and is measured against its
	specific reference buffer.
	The concentration of the protein is calculated using its specific absorption coefficient. We use
	the Expasy's protparam tool to determine the absorption coefficient of each protein.
Purification:	Two step purification of proteins expressed in baculovirus infected SF9 insect cells:
	1. In a first purification step, the protein is purified from the cleared cell lysate using three different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate fractions are analyzed by SDS-PAGE.
	 Protein containing fractions of the best purification are subjected to second purification step
	through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.
Purity:	>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Sterility:	0.22 μm filtered
Endotoxin Level:	Protein is endotoxin free.
Grade:	Crystallography grade
Target Details	
Target:	Transferrin Receptor (TFRC)
Alternative Name:	Tfrc (TFRC Products)
Background:	Cellular uptake of iron occurs via receptor-mediated endocytosis of ligand-occupied transferrin
	receptor into specialized endosomes. Endosomal acidification leads to iron release. The

Target Details

Target Details	
	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). {ECO:0000250, ECO:0000269 PubMed:10192390}.
Molecular Weight:	76.9 kDa Including tag.
UniProt:	Q62351
Pathways:	Transition Metal Ion Homeostasis
Application Details	
Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a gurantee though.
Comment:	Protein has not been tested for activity yet. In cases in which it is highly likely that the recombinant protein with the default tag will be insoluble our protein lab may suggest a higher molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all possible options with you in detail to assure that you receive your protein of interest.
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Buffer:	10 mM Hepes, pH 7.8; 400 mM NaCl, 10 % Glyerol, 5 mM BME, 2 mM EDTA
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)



Transferrin Receptor (TFRC) sp|Q62351|89-763 Fractions 17-19

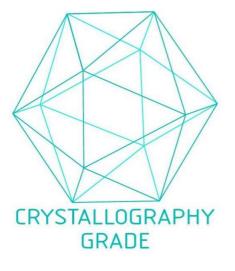
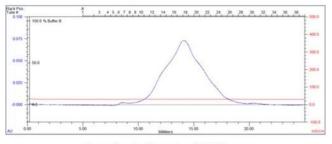


Image 2. "Crystallography Grade" protein due to multi-step,

protein-specific purification process



Transferrin Receptor (TFRC) sp|Q62351|89-763 Superdex 200, Fractions 17-19

Size-exclusion chromatography-High Pressure Liquid Chromatography

Image 3.

Western Blotting

Image 1.