

Recombinant human CD71/TFRC protein

Catalog Number: ATGP3825

PRODUCT INFORMATION

Expression system

Baculovirus

Domain

101-760aa

UniProt No.

P02786

NCBI Accession No.

NP_001121620

Alternative Names

TRFR, Transferrin receptor protein 1 isoform 1, Transferrin receptor protein 1, TR, TFRC, TFR-1, TFR1, TFR 1, TFR, T9, p90, IMD46, CD71, CD 71

PRODUCT SPECIFICATION

Molecular Weight

74.9 kDa (669aa)

Concentration

0.5mg/ml (determined by absorbance at 280nm)

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

Purity

> 90% by SDS-PAGE

Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

TFRC, also known as transferrin receptor protein 1, is a transmembrane glycoprotein composed of two disulfide-linked monomers joined by two disulfide bonds. It acts as cellular uptake of iron occurs via receptor-mediated endocytosis of ligand-occupied transferrin receptor into specialized endosomes. This protein is necessary for

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development of erythrocytes and the nervous system. And it is positively regulates T and B cell proliferation through iron uptake. Recombinant human TFRC protein, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Amino acid Sequence

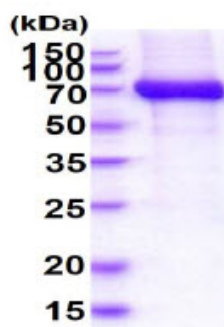
ADPLAGTESP VREEPGEDFP AARRLYWDDL KRKLSEKLDs TDFTGTIKLL NENSYVPREA GSQKDENLAL YVENQFREFK
LSKVWRDQHF VKIQVKDSAQ NSVIIVDKNG RLVYLVENPG GYVAYSKAAT VTGKLVHANF GTKKDFEDLY TPVNGSIVIV
RAGKITFAEK VANAESLNAI GVLIYMDQTK FPIVNAELSF FGHAHLGTGD PYTPGFPSFN HTQFPPSRSS GLPNIPVQTI
SRAAAEKLFG NMEGDCPSDW KTDSTCRMVT SESKNVKLTV SNVLKEIKIL NIFGVIKGFV EPDHYVVVGA QRDAWGPGAA
KSGVGTALLL KLAQMFSDMV LKDGfQPSRS IIFASWSAGD FGSVGATEWL EGYLSSLHLK AFTYINLDKA VLGTSNFKVS
ASPLLYTLIE KTMQNVKHPV TGQFLYQDSN WASKVEKLT DNAAFPFLAY SGIPAVSFCF CEDTDYPYLG TTMDTYKELI
ERIPELNKVA RAAAEVAGQF VIKLTHDVEL NLDYERYNSQ LLSFVRDLNQ YRADIKEMGL SLQWLYSARG DFFRATSRLT
TDFGNAEKTD RFVMKKLNDR VMRVEYHFLS PYVSPKESPF RHVFWGSGSH TLPALLENLK LRKQNNGAFN ETLFRNQLAL
ATWTIQGAAN ALSGDVWDID NEFH HHHHHH

General References

Laube F., et al, (2017) Anticancer Res. 37:3001-3007.
Zhou JH., et al, (2017) J Neurosci. 37:11335-11352.

DATA

SDS-PAGE



15% SDS-PAGE (3ug)

3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.