

Recombinant human CD71/TFRC protein

Catalog Number: ATGP2984

PRODUCT INFORMATION

Expression system

E.coli

Domain

89-760aa

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

77.7 kDa (696aa)

Concentration

1mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol

Purity

> 80% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE, Denatured

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. TFRC is required for iron delivery from transferring to cells. This protein is a transmembrane glycoprotein composed of two disulfide-linked monomers joined by two disulfide bonds. Each monomer binds one holo-transferrin molecule creating an iron-Tf-TfR complex which enters the cell by endocytosis. Recombinant human TFRC protein, fused to His-tag at N-terminus, was expressed in E. coli.

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Amino acid Sequence

MGSSHHHHHH SSGLVPRGSH MGSMCKGVEP KTECERLAGT ESPVREEPGE DFPAARRLYW DDLKRKLSEK LDSTDFTGTI
KLLNENSYVP REAGSQKDEN LALYVENQFR EFKLSKVWRD QHFVKIQVKD SAQNSVIIVD KNGRLVYLVE NPGGYVAYSK
AATVTGKLVH ANFGTKKDFE DLYTPVNGSI VIVRAGKITF AEKVANAESL NAIGVLIYMD QTKFPIVNAE LSFFGHAHLG
TGDPTPGFSP SFNHTQFPPS RSSGLPNIPV QTISRAAAEK LFGNMEGDCP SDWKTDSTCR MVTSESKNVK LTVSNVLKEI
KILNIFGVK GFVEPDHYV VQAQRDAWGP GAAKSGVGTA LLLKLAQMF5 DMVLKDGFP SRSIIFASWS AGDFGSVGAT
EWLEGYLSL HLKAFYINL DKAVLGTSNF KVSASPLLYT LIEKTMQNVK HPVTGQFLYQ DSNWASKVEK LTLDNAAFP
LAYSGIPAVS FCFCEDTDYP YLGTTMDTYK ELIERIPELN KVARAAAEVA GQFVIKLTHD VELNLDYERY NSQLLSFVRD
LNQYRADIKE MGLSLQWLYS ARGDFFRATS RLTTDFGNAE KTDRFVMKKL NDRVMRVEYH FLSPYVSPKE SPFRHVFWS
GSHTLPALLE NLKLRKQNG AFNETLFRNQ LALATWTIQG AANALSGDVW DIDNEF

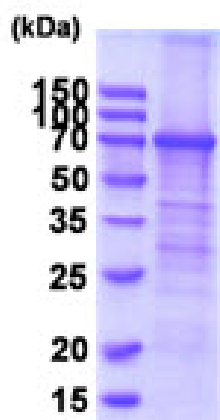
General References

Rothenberger S., et al. (1987) Cell 49:423-431

Tosoni D., et al. (2005) Cell 123:875-888

DATA

SDS-PAGE



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

15% SDS-PAGE (3ug)