
Product Data Sheet

Product Name: TFRC Human
 Cat. No.: GP24811
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Transferrin receptor protein 1; TR; TfR; TfR1; Trfr; T9; p90; CD_antigen: CD71; Transferrin receptor; serum form; sTfR; TFRC; CD71.		
Amino Acid Sequence	<p>MGSSHHHHHH SGLVPRGSH MGSMCKGVPEP KTECERLAGT ESPVREEPGE DFPAARRLYW DDLKRKLSEK LDSTDFTGTI KLLNENSYVP REAGSQKDEN LALYVENQFR EFKLSKVWRD QHFVVKIQVKD SAQNSVIIVD KNGRLVYLVE NPGGYVAYSK AATVTGKLVH ANFGTKKDFE DLYTPVNGSI VIVRAGKITF AEKVANAESL NAIGVLIYMD QTKFPIVNAE LSFFGHAHLG TGDPYTPGFP SFNHTQFPPS RSSGLPNIPV QTISRAAAEEK LFGNMEGDGP SDWKTDSTCR MVTSESKNVK LTVSNVLKEI KILNIFGVK GFVEPDHYVV VGAQRDAWGP GAAKSGVGTA LLLKLAQMFS DMVLKDGFP SRSIIFASWS AGDFGSGVAT EWLEGYLSSL HLKAFTYINL DKAVLGTSNF KVSASPLLYT LIEKTMQNVK HPVTGQFLYQ DSNWASKVEK LTLDNAAFP LAYSGIPAVS FCFCEDTDYP YLGTTMDTYK ELIERIPELN KVARAAAEVA GQFVIKLTHD VELNLDYERY NSQLLSFVRD LNQYRADIKE MGLSLQWLYS ARGDFFRATS RLTTDFGNAE KTRDFVMKKL NDRVMRVEYH FLSPYVSPKE SPFRHVFVWGS GSHTLPALLE NLKLRKQNG AFNETLFRNQ LALATWTIQG AANALSGDVW DIDNEF.</p>		
Formulation	TFRC protein solution (1mg/ml) containing 20mM Tris-HCl (pH8.0) and 10% glycerol.		

Introduction

Transferrin receptor protein 1 (TFRC) is required for iron delivery from transferrin to cells. The TFRC protein is a transmembrane glycoprotein comprised of 2 disulfide-linked monomers joined by 2 disulfide bonds. Each monomer will bind one holo-transferrin molecule producing an iron-Tf-TfR complex which enters the cell by endocytosis.

Stability

Caution: Product has not been fully validated for medical applications. For research use only.

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Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

TFRC Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 696 amino acids (89-760 a.a) and having a molecular mass of 77.7 kDa. TFRC is fused to a 24 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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