Transferrin (TF) Recombinant Protein

PRODUCT OVERVIEW

Product Name	Transferrin (TF), Recombinant Protein
Full Product Name	Purified recombinant Human Transferrin protein
Product Gene Name	TF recombinant protein
Product Synonym Names	Transferrin protein
Host	Human
Form/Format	Lyophilized Powder
Purity/Purification	> 98% pure
Preparation and Storage	Store at 2-8 degree C for short term storage. For long term storage aliquot and store at -20 degree C.
Molecular Weight	77,064 Da
OMIM	M12530 mRNA
Expression	Oryza Sativa
Product Categories/Family for TF recombinant protein	Nutrition & Metabolism
Related Product Information for TF recombinant protein	MBS5308453 is a recombinant protein targeting TF. Also known as Purified recombinant Human Transferrin protein. Host: Human.
Other Notes	Small volumes of TF recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for TF. It may not necessarily be applicable to this product.

NCBI GI #	339453
NCBI GeneID	7018
NCBI Accession #	AAA61140.1
UniProt Secondary Accession #	O43890; Q1HBA5; Q9NQB8; Q9UHV0
UniProt Related Accession #	P02787
NCBI Official Full Name	transferrin
NCBI Official Synonym Full Names	transferrin
NCBI Official Symbol	TF
NCBI Official Synonym Symbols	TFQTL1; PRO1557; PRO2086; HEL-S-71p
UniProt Protein Name	Serotransferrin
UniProt Synonym Protein Names	Beta-1 metal-binding globulin; Siderophilin
Protein Family	Transferrin
UniProt Gene Name	TF

UniProt Synonym Gene Names	Transferrin
NCBI Protein Information	serotransferrin
NCBI Summary for TF	This gene encodes a glycoprotein with an approximate molecular weight of 76.5 kDa. It is thought to have been created as a result of an ancient gene duplication event that led to generation of homologous C and N-terminal domains each of which binds one ion of ferric iron. The function of this protein is to transport iron from the intestine, reticuloendothelial system, and liver parenchymal cells to all proliferating cells in the body. This protein may also have a physiologic role as granulocyte/pollen-binding protein (GPBP) involved in the removal of certain organic matter and allergens from serum. [provided by RefSeq, Sep 2009]
UniProt Comments for TF	TF: Transferrins are iron binding transport proteins which can bind two Fe(3+) ions in association with the binding of an anion, usually bicarbonate. It is responsible for the transport of iron from sites of absorption and heme degradation to those of storage and utilization. Serum transferrin may also have a further role in stimulating cell proliferation. Defects in TF are the cause of atransferrinemia (ATRAF). Atransferrinemia is rare autosomal recessive disorder characterized by iron overload and hypochromic anemia. Belongs to the transferrin family. Protein type: Secreted; Secreted, signal peptide Chromosomal Location of Human Ortholog: 3q22.1 Cellular Component: apical plasma membrane; basal plasma membrane; cell surface; coated pit; cytoplasmic vesicle; early endosome; endocytic vesicle; endosome membrane; extracellular region; extracellular space; extrinsic to external side of plasma membrane; late endosome; perinuclear region of cytoplasm; recycling endosome; vesicle Molecular Function: ferrous iron binding; protein binding Biological Process: cellular iron ion homeostasis; iron ion homeostasis; platelet degranulation; positive regulation of receptor-mediated endocytosis; regulation of protein stability; retinal homeostasis; transferrin transport Disease: Atransferrinemia
Research Articles on TF	**1.** High carbohydrate deficient transferrin is associated with relapse in alcohol-dependent patients.
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