Transferrin (TF) Native Protein

PRODUCT OVERVIEW

Product Name	Transferrin (TF), Native Protein
Full Product Name	Transferrin protein
Product Gene Name	TF native protein
Product Synonym Names	PRO2086 protein; TF protein; Siderophilin protein; beta 1 metal binding globulin protein; PRO1400 protein; Serotransferrin precursor protein; Apotransferrin protein; DKFZp781D0156 protein; PRO1557 protein
Host	Human
Form/Format	Lyophilized from 20mM PBS, pH 7.4.
Purity/Purification	> 95% pure
Preparation and Storage	Store at 4 degree C for short term storage. Aliquot and store at -20 degree C for long term storage. Avoid repeated freeze/thaw cycles.
Molecular Weight	77,064 Da
OMIM	190000
3D Structure	ModBase 3D Structure for P02787
Source Note	Human serum/plasma
Protein Type	Native
Biohazard Information	Donor samples were tested and found to be negative for HIV I/II, and HCV antibodies, and Hepatitis B surface antigen. Nonetheless caution should be used when handling this material as there is a margin of error in all tests. This product contains sodium azide as preservative. Although the amount of sodium azide is very small appropriate care must be taken when handling this product.
Product Categories/Family for TF native protein	Nutrition & Metabolism; Native Protein
Applications Tested/Suitable for TF native protein	User optimized
Related Product Information for TF native protein	MBS537635 is a native protein targeting TF. Also known as Transferrin protein. Host: Human. Purified native Human Transferrin protein
Other Notes	Small volumes of TF native 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 #	248648
NCBI GeneID	7018
NCBI Accession #	AAB22049.1
UniProt Primary Accession #	P02787
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
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
UniProt Entry Name	TRFE_HUMAN
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: extracellular space; cell surface; early endosome; cytoplasmic membrane-bound vesicle; extracellular region; coated pit; recycling endosome; endocytic vesicle; perinuclear region of cytoplasm; late endosome; apical plasma membrane; basal plasma membrane; endosome membrane; vesicle Molecular Function: protein binding; ferric iron binding; ubiquitin protein ligase binding Biological Process: retinal homeostasis; platelet activation; platelet degranulation; cellular iron ion homeostasis; transferrin transport; blood coagulation; transmembrane transport Disease: Atransferrinemia
Research Articles on TF	**1.** genetic association studies in a population of black women in South Africa: Data confirm that an SNP in TF (rs1799852) is associated with iron status/iron-deficiency anemia in the population studied.
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