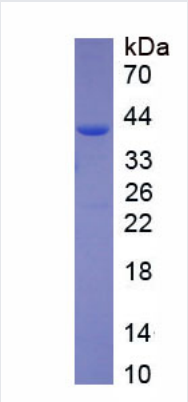
Transferrin (TF) Recombinant Protein

PRODUCT OVERVIEW

Product Name	Transferrin (TF), Recombinant Protein
Full Product Name	Recombinant Transferrin (TF)
Product Gene Name	TF recombinant protein
Product Synonym Names	Transferrin; TF recombinant protein (prokaryotic), Dog; TRF; Siderophilin; Serotransferrin; Beta-1 metal-binding globulin
Host	E coli
Form/Format	PBS, pH7.4, containing 0.01% SKL, 5% Trehalose. Freeze-dried powder
Purity/Purification	Greater than 90% by SDS-PAGE
Preparation and Storage	Store at 2-8 degree C for one month, -80 degree C for 12 months Stable for 12 months if correctly stored.
Molecular Weight	77,064 Da
Sequence Positions	Val26~Glu350
Chromosome Location	Chromosome: 3; NC_000003.11 (133464977..133497850). Location: 3q22.1
OMIM	190000
3D Structure	ModBase 3D Structure for P02787
Supply Chain Verification	Manufactured in a lab with traceable raw materials. Bulk orders can typically be prepared to the customer's specifications, please inquire.
Expression System	Prokaryotic expression
Species	Dog
Tag	Two N-terminals, His-tag and SUMO-tag
Endotoxin Level	<1.0EU per 1ug (determined by the LAL method)
Isoelectric Point	8.3
Subcellular Location	Secreted
Research Area	Tumor immunity
Product Categories/Family for TF recombinant protein	Prokaryotic proteins
ISO Certification	Manufactured in an ISO 9001:2015 and ISO 13485:2016 Certified Laboratory.
Applications Tested/Suitable for TF recombinant protein	Positive Control, Immunogen, SDS-PAGE, Western Blot (WB)
Related Product Information for TF recombinant protein	MBS2153996 is a recombinant protein targeting TF. Also known as Recombinant Transferrin (TF). Host: E coli.
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.



SDS-PAGE of TF recombinant protein
Figure. SDS-PAGE

VRWCTVSNHEASKCSSFMENMKTVLENGPFVSCVKRTSYLECIKAIWANEADAVTLDAGLVFEAGLNPYNLKPVVAEFYGKDEQTRYYAV
AVVKKSSTFNLNQLQGKKSCHTGLGRSAGWNIPMGLLYWKLPEPRESLQKAASSFFTASCVPCVDRTAFPKLCQLCVGKGTDKCACSNHE
PYFGYSGAFKCLRDAGDVAFVKHSTVLENLPNKADLKQYELLCLDNTRKPVDEYKDCYLAKVPSHAVVARSVGGKEDLIWELLNQAQEH
YGKDKSKEFQLFSSTLGKDLLFKDSAEGFFRIPPRMDTWLYLGYEYVTAIRNLRE

Amino Acid info of TF recombinant protein

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 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
UniProt Gene Name	TF
UniProt Synonym Gene Names	Transferrin
UniProt Entry Name	TRFE_HUMAN
NCBI Protein Information	serotransferrin; siderophilin; beta-1 metal-binding globulin
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; apical plasma membrane; late endosome; basal plasma membrane; endosome membrane; vesicle Molecular Function: protein binding; ferric iron binding; ubiquitin protein ligase binding Biological Process: platelet activation; retinal homeostasis; platelet degranulation; cellular iron ion homeostasis; transferrin transport; blood coagulation; transmembrane transport Disease: Atransferrinemia
Research Articles on TF	**1.** The structures of hTF observed here represent key conformers captured in the dynamic nature of the transferrin family proteins and provide a structural basis for understanding the mechanism of metal uptake and release in transferrin families.
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