Native Human Transferrin

Cat. No. TF-391H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Native human TF was expressedin Human plasma,which having a molecule weight of 77 kDa.
Species	Human
Source	Human Plasma
Description	TFis a monomeric glycoprotein found in plasma at an average concentration of 250mg/100 ml. The Holo form of TF is iron saturated and also calledSiderophilin. The specific iron-binding protein in plasma, it has a role inthe transportation and distribution of iron among the body organs, in ironmetabolism and prevention of iron loss via the kidneys. Stored in bone marrowas Tf-bound iron, it also possesses bacteriostatic and fungistatic activity.Clinically, decreases in TF are observed in congenital disorders, newborns,inflammatory diseases, hypoproteinemias and nephrotic syndrome; increases arefound in pregnancy, iron-deficiency anemias, and inoculation hepatitis. TF isrequired by all types of cells in cultures for maximal growth. It is,therefore, an important transport factor used in defined culture media. Eachhuman transferring molecule has the ability to carry two iron ions in theferric form (Fe3+). Dissolves in water at 10 mg per ml. Prepared from plasmashown to be non reactive for HbsAG, anti-HCV, anti-HBc, and negative foranti-HIV 1 & 2 by FDA approved tests.
Form	Lyophilized power -Buffer: Ammonium Bicarbonate; pH 7.2.

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Molecule Weight	77 kDa
Concentration	Lyophilized
Purity	>95% by SDS-PAGEanalysis
Storage	When stored at-80°C, product is stable for 3 years from date of delivery. Avoid repeated freeze-thawcycles.
Pathways	EPHBforward signaling; HIF-1-alpha transcription factor network; Hemostasis; Ironuptake and transport; Mineral absorption; Platelet activation; Plateletdegranulation; Response to elevated platelet cytosolic Ca2+; Transferrinendocytosis and recycling; Transmembrane transport of small molecules

GENE INFORMATION

Gene Name	TF transferrin [Homo sapiens]
Official Symbol	TF
Synonyms	TF; transferrin; TFQTL1;PRO1557; PRO2086; Transferrin; serotransferrin; DKFZp781D0156; siderophilin;OTTHUMP00000197155; beta-1 metal-binding globulin; Beta-1 metal-bindingglobulin; EC 3.4.21
Gene ID	7018
mRNA Refseq	NM_001063
Protein Refseq	NP_001054
MIM	190000

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UniProt ID	P02787
Chromosome Location	3q22.1
Function	ferriciron binding; metal ion binding; protein binding; ubiquitin protein ligasebinding
PDB rendering based on 1a8e.	

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