

# Native Human Transferrin

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

## SPECIFICATION

**Product Overview** Native human TF was expressed in Human plasma, which having a molecule weight of 77 kDa.

**Species** Human

**Source** Human Plasma

**Description** TF is a monomeric glycoprotein found in plasma at an average concentration of 250mg/100 ml. The Holo form of TF is iron saturated and also called Siderophilin. The specific iron-binding protein in plasma, it has a role in the transportation and distribution of iron among the body organs, in iron metabolism and prevention of iron loss via the kidneys. Stored in bone marrow as 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 are found in pregnancy, iron-deficiency anemias, and inoculation hepatitis. TF is required by all types of cells in cultures for maximal growth. It is, therefore, an important transport factor used in defined culture media. Each human transferrin molecule has the ability to carry two iron ions in the ferric form (Fe<sup>3+</sup>). Dissolves in water at 10 mg per ml. Prepared from plasma shown to be non reactive for HbsAG, anti-HCV, anti-HBc, and negative for anti-HIV 1 & 2 by FDA approved tests.

**Form** Lyophilized powder - Buffer: Ammonium Bicarbonate; pH 7.2.

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<b>Molecule Weight</b>	77 kDa
<b>Concentration</b>	Lyophilized
<b>Purity</b>	>95% by SDS-PAGE analysis
<b>Storage</b>	When stored at -80°C, product is stable for 3 years from date of delivery. Avoid repeated freeze-thaw cycles.
<b>Pathways</b>	EPH forward signaling; HIF-1-alpha transcription factor network; Hemostasis; Iron uptake and transport; Mineral absorption; Platelet activation; Platelet degranulation; Response to elevated platelet cytosolic Ca <sup>2+</sup> ; Transferrin endocytosis and recycling; Transmembrane transport of small molecules

## GENE INFORMATION

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

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

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