

# Native Human Transferring

Cat. No. TF-5341H Lot. No. (See product label)

## SPECIFICATION

**Product Overview** Native human TF expressed by Human Plasma is a 76.5 kDa protein.

**Species** Human

**Source** Human Plasma

**Description**

Transferrin (TF) is a glycoprotein 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. Therefore, each Human TF molecule has the ability to carry two Iron ions in the Ferric form (Fe<sup>3+</sup>). The function of TF is to transport Iron from the intestine, reticuloendothelial system, and liver parenchymal cells to all proliferating cells in the body. TF may also have a physiologic role as Granulocyte/Pollen-Binding Protein (GPBP) involved in the removal of certain organic matter and allergens from serum. Apo-Transferrin designates the form of the molecule without Iron bound. Like TF, APO-TF has a physiological role in the transportation and distribution of Iron among the body organs. It is also an important transport factor used in defined culture media.

**Form** Lyophilized from Ammonium Bicarbonate pH 7.2.

**Molecular Weight** 76.5 kDa

**Reconstitution** Centrifuge vial prior to opening. Add deionized water to a concentration of 10 mg/ml, aliquot and freeze unused portion.

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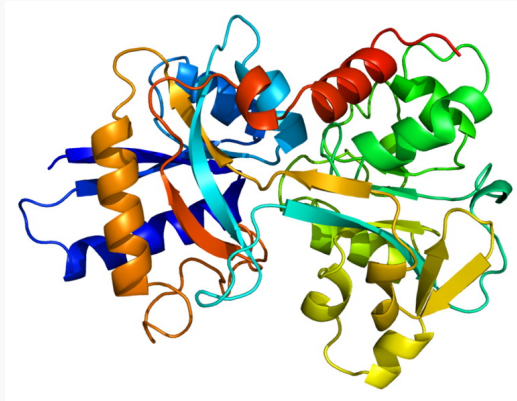
<b>Purity</b>	> 95% by SDS-PAGE; Purified to have < 0.02 mg iron/g TF.
<b>Storage</b>	Store at -70°C. 3 years from delivery. Avoid repeated freeze-thaw cycles.
<b>Official Symbol</b>	TF
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	TF transferrin [ Homo sapiens ]
<b>Synonyms</b>	TF; transferrin; TFQTL1; PRO1557; PRO2086; DKFZp781D0156; serotransferrin; siderophilin; OTTHUMP00000197155; beta-1 metal-binding globulin
<b>Gene ID</b>	7018
<b>mRNA Refseq</b>	NM_001063
<b>Protein Refseq</b>	NP_001054
<b>MIM</b>	190000
<b>UniProt ID</b>	P02787
<b>Chromosome Location</b>	3q22.1
<b>Pathway</b>	EPHB 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
<b>Function</b>	ferric iron binding; metal ion binding; protein binding; ubiquitin protein ligase binding

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