

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 (Fe³⁺). 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.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Molecule Weight	77 kDa
Concentration	Lyophilized
Purity	>95% by SDS-PAGE analysis
Storage	When stored at -80°C, product is stable for 3 years from date of delivery. Avoid repeated freeze-thaw cycles.
Pathways	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 ²⁺ ; Transferrin endocytosis 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-binding globulin; EC 3.4.21
Gene ID	7018
mRNA Refseq	NM_001063
Protein Refseq	NP_001054
MIM	190000

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA