

Human Transferrin

Cat. No. TF-4778H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	This product is excellent for use as a growth factor for primary, continuous, and transformed cell lines.
Species	Human
Source	Human Plasma
Description	TF is a glycoprotein that binds iron very tightly but reversibly. Although iron bound to transferrin is less than 0.1% (4 mg) of the total body iron, it is the most important iron pool, with the highest rate of turnover (25 mg/24 h). TF has a molecular weight of around 80 kDa and contains 2 specific high-affinity Fe (III) binding sites.
Source Testing	The normal human serum/plasma of each donor unit, from which this product was manufactured, has been tested and certified negative for the following by FDA approved testing procedures: HBsAg, Anti-HCV, Anti-HIV-1, Anti-HIV-2, Syphilis, ALT Test and NAT-PCR (HAV, HIV, HBC, HCV and Parovirus B19). Human blood products should always be treated in accordance with universal handling precautions.
Protein	97.0% By Lowry.
Purity	> 98% By Cellulose Acetate Electrophoresis.
Iron	1500 µg/g By Diagnostic Assay.
pH	7.06 (3% Solution)

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Endotoxin	< 0.076 EU/mg By LAL.
Sodium	0.0-10.0 mg/g By Flame Photometer.
Chloride	0.0-12.0 mg/g By Coulometric Titrator.
Moisture	0.87% By Karl Fisher.
Storage	Store at -20°C.
Pathways	EPHB forward signaling; Formation of Platelet plug; 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; transferring; PRO1557; PRO2086; DKFZp781D0156; serotransferrin; siderophilin; OTTHUMP00000197155; beta-1 metal-binding globulin; Serotransferrin; Beta-1 metal-binding globulin; Siderophilin
Gene ID	7018
mRNA Refseq	NM_001063
Protein Refseq	NP_001054

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MIM	190000
UniProt ID	P02787
Chromosome Location	3q21
Function	ferric iron binding; metal ion binding; protein binding; ubiquitin protein ligase binding
PDBrendering based on 1a8e	