

Active Human Transferrin Reference Standard

Cat. No. TF-24H Lot. No. (See product label)

SPECIFICATION

Product Overview

Species	Human
Description	Human transferrin is a single-chain glycoprotein. It has two potential N-linked glycosylation sites and one potential O-linked glycosylation site. Transferrin binds two Fe³⁺ ions, with high affinity ($K_d \approx 10^{-20}$ M), together with two synergistically bound CO₃²⁻ ions. The protein is mainly synthesized in the liver and secreted into the plasma. Lower amounts are also produced in other organs, such as the testis and brain. Transferrin is also capable of acting as a cytokine and has additional functions that may not be related to its iron-carrying capacity. Other roles for transferrin include acting as a neurotrophic factor in myotubule formation and as an angiogenic factor in promoting the migration and invasion of endothelial cells.
Form	Liquid
Bio-activity	The level of Transferrin in the serum was quantified using ELISA.
Usage	For research use only, not for diagnostic or therapeutic use.
Quality Control Test	Generated from a human serum pool. This lot has been tested by standard laboratory procedures and found to be negative for HIV 1, HIV 2, Hepatitis B and Hepatitis C.
Storage	Stored at -20 °C, 4 °C for less than seven days, frozen for greater than seven days.

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Concentration	3.4 mg/ml
Preservative	0.1% sodium azide
GENE INFORMATION	
Gene Name	TF transferrin [Homo sapiens]
Official Symbol	TF
Synonyms	TF; transferrin; serotransferrin; PRO1557; PRO2086; siderophilin; beta-1 metal-binding globulin; TFQTL1; DKFZp781D0156;
Gene ID	7018
mRNA Refseq	NM_001063
Protein Refseq	NP_001054
MIM	190000
UniProt ID	P02787
Chromosome Location	3q21
Pathway	EPHB forward signaling, organism-specific biosystem; HIF-1-alpha transcription factor network, organism-specific biosystem; Hemostasis, organism-specific biosystem; Iron uptake and transport, organism-specific biosystem; Mineral absorption, organism-specific biosystem; Mineral absorption, conserved biosystem; Platelet activation, signaling and aggregation, organism-specific biosystem;

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Function

ferric iron binding; metal ion binding; protein binding; ubiquitin protein ligase binding;

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