

Recombinant Human TF

Cat. No. TF-31155TH Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human Transferrin expressed in modified human 293 cells, 70-80kDa.
Species	Human
Description	<p>This gene encodes a glycoprotein with an approximate molecular weight of 76.5 kDa. It is 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. The function of this protein is to transport iron from the intestine, reticuloendothelial system, and liver parenchymal cells to all proliferating cells in the body. This protein may also have a physiologic role as granulocyte/pollen-binding protein (GPBP) involved in the removal of certain organic matter and allergens from serum.</p>
Tissue specificity	Expressed by the liver and secreted in plasma.
Biological activity	The activity of TF-31155TH was measured by its ability to support the growth of HepG2 cells under conditions of reduced serum. Typically 0.1 to 1 µg enhances cell proliferation.
Form	Lyophilised: It is recommended that 0.5 ml of sterile phosphate-buffered saline be added to the vial.
Purity	>95% by SDS-PAGE

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Storage buffer	Preservative: None Constituents: 10% Trehalose, 1% Human serum albumin
Storage	Shipped at 4°C. After reconstitution store at -20oC. Avoid freeze / thaw cycles.
Sequences of amino acids	<p>Theoretical sequence: VPDKTVRWCAVSEHEATKCQSFRDHMKSVIPSDGPSVA CV KKASYLDCIRAIANEADAVTLDAGLVYDAYLAPNN LKPVVAEFYGSKEDPQTFYYA VAVVKKDSGFQMNQLRG KKSCHTGLGRSAGWNIPIGLLYCDLPEPRKPLEKAVAN FFSGSCAPCADGTDGDFPQLCQLCPGCGCSTLNQYFGYSG AFKCLKNGAGDVAFVKH STIFENLANKADRQYELLCL DNTRKPVDEYKDCHLAQVPSHTVVARSMGGKEDLI WELLN QAQEHFGKDKSKEFQLFSSPHGKDLLFKDSAHGFLKVP PRMDAKMYLGY EYVTAIRNLREGTCQEAPTDECKPVKW CALSHHERLKCDDEWSVNSVGKIECVSAET TEDCIAKIM NGEADAMSLDGGFVYIAGKCGLVPVLAENYNKSDNCED TPEAGYFAV AVVKKSASDLTWDNLKGKKSCHTAVGRTA GWNIPMGLLYNKINHCRFDEFFSEGC APGSKKDSSLCK LCMGSGNLNCEPNNKEGYGYTGAFRCLVEKGDVAFVKHQ TV PQNTGGKNPDPWAKNLNEKDYELLCLDGTRKPVVEY ANCHLARAPNHAVVTRKDK EACVHKILRQQHFLFGSNV TDCSGNFCLFRSETKDLLFRDDTVCLAKLHDRNTYEK Y LGEEYVKA VGNLRKCSTSSLLEACTFRRP</p>
Sequence Similarities	Belongs to the transferrin family. Contains 2 transferrin-like domains.
Full Length	Full L.
GENE INFORMATION	
Gene Name	TF transferrin [Homo sapiens]
Official Symbol	TF
Synonyms	TF; transferrin; serotransferrin; PRO1557; PRO2086;

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

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