

Serotransferrin (TF) Active Protein | TF active protein

Recombinant Human Serotransferrin (TF)(Active)

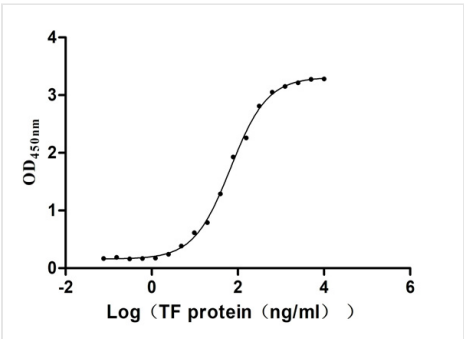
CATALOG # AAA279228	HOST Mammalian cell
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PRODUCT SYNONYMS

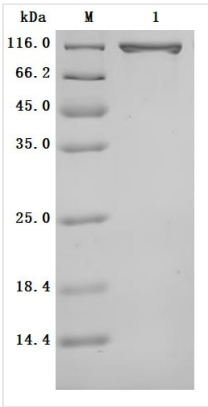
Serotransferrin (TF); Recombinant Human Serotransferrin (TF)(Active); Transferrin; Beta-1 metal-binding globulin; Siderophilin; TF; PRO1400; TF active protein

PRODUCT SPECIFICATIONS

Host	Mammalian cell
Purity/Purification	Greater than 95% as determined by SDS-PAGE.
Form/Format	Lyophilized powder Lyophilized from a 0.2 um filtered PBS, 6% Trehalose, pH 7.4
Sequence Positions	20-698aa; Full Length of Mature Protein
Sequence	VPDKTVRWCA VSEHEATKCQ SFRDHMKSVI PSDGPSVACV KKASYLDCIR AIAANEADAV TLDAGLVYDA YLAPNNLKPV VAEFYGSKED PQTFYYAVAV VKKDSGFQMN QLRGKKSCHT GLGRSAGWNI PIGLLYCDLP EPRKPLEKAV ANFFSGSCAP CADGTDFPQL CQLCPGCGCS TLNQYFGYSG AFKCLKDGAG DVAFAVKHSTI FENLANKADR DQYELLCLDN TRKPVDEYKD CHLAQVPSHT VVARSMGGKE DLIWELLNQA QEHEFGKDKSK EFQLFSSPHG KDLLFKDSAH GFLKVPPRMD AKMYLGIEYV TAIRNLREGT CPEAPTDECK PVKWCALSHH ERLKCDEWSV NSVGKIECVS AETTEDCIAK IMNGEADAMS LDGGFVYIAG KCGLVPVLA E NYNKSDNCED TPEAGYFAIA VVKKSASDLT WDNLGKKKSC HTAVGRTAGW NIPMGLLYNK INHCRFDEFF SEGCA PGSKK DSSLCKLCMG SGLNLCEPNN KEGYYGYTGA FRCLVEKGDV AFVKHQTPVQ NTGGKNPDW AKNLNEKDYE LLCLDGRKP VEEYANCHLA RAPNHAVVTR KDKEACVHKI LRQQQH LFGS NVTDCSGNFC LFRSETKDLL FRDDTVCLAK LHDRNTYEKY LGEEYKAVG NLRKCSTSSL LEACTFRRP\$
Species	Homo sapiens (Human)
Tag	C-terminal hFc-tagged
Endotoxin	Less than 1.0 EU/ug as determined by LAL method.
Research Area	Cancer
Biological Activity	Measured by its binding ability in a functional ELISA. Immobilized Human TFRC at 2 ug/mL can bind Human TF. The EC50 is 58.72-77.84 ng/mL.
Preparation and Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20 degree C/-80 degree C. The shelf life of lyophilized form is 12 months at -20 degree C/-80 degree C. Repeated freezing and thawing is not recommended. Store working aliquots at 4 degree C for up to one week. We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20 degree C/-80 degree C. Our default final concentration of glycerol is 50%. Customers could use it as reference.



Bioactivity
Measured by its binding ability in a functional ELISA. Immobilized TFRCat 2?g/mL can bind Human TF, the EC50 is 58.72-77.84 ng/mL.



SDS-PAGE
Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

ADDITIONAL INFORMATION

Related Product Information for TF active protein	Transferrins are iron binding transport proteins which can bind two Fe3+ ions in association with the binding of an anion, usually bicarbonate. It is responsible for the transport of iron from sites of absorption and heme degradation to those of storage and utilization. Serum transferrin may also have a further role in stimulating cell proliferation.Serves as an iron source for Neisseria species, which capture the protein and extract its iron for their own use.Serves as an iron source for parasite T.brucei (strain 427), which capture TF via its own transferrin receptor ESAG6:ESAG7 and extract its iron for its own use.
Product Categories/Family for TF active protein	Active Protein & In Stock Protein
References	"Human transferrin: cDNA characterization and chromosomal localization."Yang F., Lum J.B., McGill J.R., Moore C.M., Naylor S.L., van Bragt P.H., Baldwin W.D., Bowman B.H.Proc. Natl. Acad. Sci. U.S.A. 81:2752-2756 (1984)"Complete structure of the human transferrin gene. Comparison with analogous chicken gene and human pseudogene."Schaeffer E., Lucero M.A., Jeltsch J.-M., Py M.-C., Levin M.J., Chambon P., Cohen G.N., Zakin M.M.Gene 56:109-116 (1987)"A cloned gene for human transferrin."Hershberger C.L., Larson J.L., Arnold B., Rosteck P.R. Jr., Williams P., Dehoff B., Dunn P., O'Neal K.L., Riemen M.W., Tice P.A.Ann. N. Y. Acad. Sci. 646:140-154 (1991)

NCBI AND UNIPROT INFORMATION

NCBI GI #	339453
NCBI GeneID	7018
UniProt Accession #	P02787; O43890; Q1HBA5; Q9NQB8; Q9UHV0
Molecular Weight	77,064 Da
NCBI Official Full Name	transferrin
NCBI Official Synonym Full Names	transferrin
NCBI Official Symbol	TF
NCBI Official Synonym Symbols	TFQTL1; PRO1557; PRO2086
NCBI Protein Information	serotransferrin; siderophilin; beta-1 metal-binding globulin
UniProt Protein Name	Serotransferrin
UniProt Gene Name	TF
UniProt Synonym Gene Names	Transferrin

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com

Online datasheet: <https://stage.aaabiotech.com/mammalian-cell-active-protein/serotransferrin-tf/279228>