

Datasheet for ABIN7275694

Transferrin Protein (TF) (AA 20-698) (His tag)**3** Images[Go to Product page](#)

Overview

Quantity:	100 µg
Target:	Transferrin (TF)
Protein Characteristics:	AA 20-698
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Transferrin protein is labelled with His tag.

Product Details

Purpose:	Human Transferrin Protein
Sequence:	Val20-Pro698
Characteristics:	Recombinant Human Transferrin Protein is expressed from HEK293 with His tag at the C-Terminus. It contains Val20-Pro698.
Purity:	> 95 % as determined by Tris-Bis PAGE, > 95 % as determined by HPLC
Sterility:	0.22 µm filtered
Endotoxin Level:	Less than 1EU per µg by the LAL method.
Biological Activity Comment:	The affinity constant of 27.50 nM as determined in SPR assay (Biacore T200). See testing image for detail.

Target Details

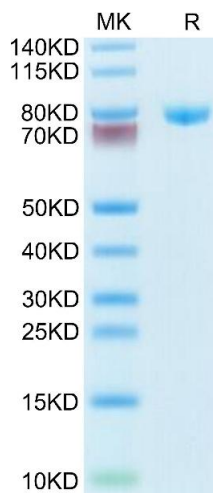
Target:	Transferrin (TF)
Alternative Name:	Transferrin (TF Products)
Background:	Transferrin (Tf), an iron transporter, is mainly biosynthesized in the liver, but can also be biosynthesized in the brain, i.e., by oligodendrocytes and the choroid plexus, a cerebrospinal fluid (CSF) producing tissue. The CSF contains two Tf isoforms, brain-type Tf and serum-type Tf, which differ in their glycan structures. Brain-type Tf is uniquely glycosylated with biantennary asialo- and agalacto-complex type N-glycans that carry bisecting β 1,4-GlcNAc and core α 1,6-Fuc. The glycans of serum-type Tf in the CSF are similar to those of Tf in serum.
Molecular Weight:	76.3 kDa. Due to glycosylation, the protein migrates to 78-82 kDa based on Tris-Bis PAGE result.
Pathways:	Transition Metal Ion Homeostasis

Application Details

Restrictions:	For Research Use only
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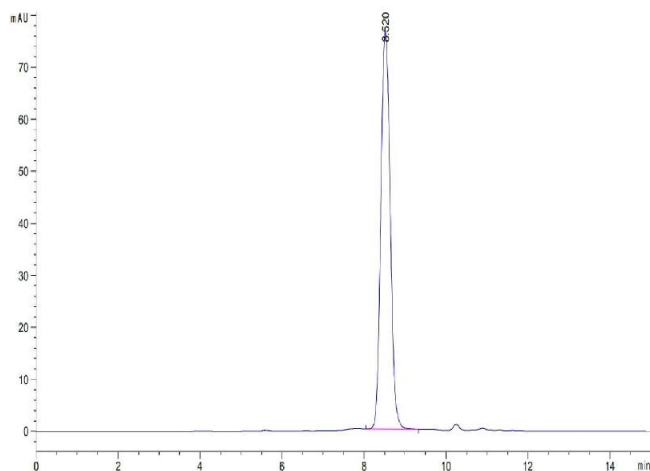
Handling

Format:	Lyophilized
Reconstitution:	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 μ g/mL is recommended. Dissolve the lyophilized protein in distilled water.
Buffer:	Lyophilized from 0.22 μ m filtered solution in PBS (pH 7.4). Normally 8 % trehalose is added as protectant before lyophilization.
Storage:	-20 °C,-80 °C
Storage Comment:	-20 to -80°C for 12 months as supplied from date of receipt.,-80°C for 3-6 months after reconstitution.,2-8°C for 2-7 days after reconstitution.,Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.
Expiry Date:	12 months



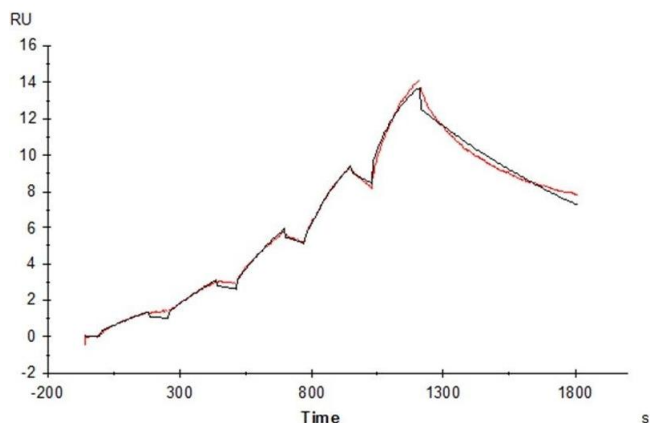
SDS-PAGE

Image 1. Human Transferrin on Tris-Bis PAGE under reduced condition. The purity is greater than 95 % .



Size-exclusion chromatography-High Pressure Liquid Chromatography

Image 2. The purity of Human Transferrin is greater than 95 % as determined by SEC-HPLC.



Surface Plasmon Resonance

Image 3. Human Transferrin, His Tag immobilized on CM5 Chip can bind Human Transferrin R, His Tag with an affinity constant of 27.50 nM as determined in SPR assay (Biacore T200).