

Biotinylated Human Transferrin Protein



Cat. No. TFN-HM401B

Description	
Source	Recombinant Biotinylated Human Transferrin Protein is expressed from HEK293 with His tag and Avi tag at the C-terminus. It contains Val20-Pro698.
Accession	AAH59367
Molecular Weight	The protein has a predicted MW of 78.11 kDa. Due to glycosylation, the protein migrates to 80-100 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 1 EU per µg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

Formulation and Storage	
Formulation	Supplied as 0.22 µm filtered solution in PBS (pH 7.4).
Storage	Valid for 12 months from date of receipt when stored at -80°C. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

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 β1,4-GlcNAc and core α1,6-Fuc. The glycans of serum-type Tf in the CSF are similar to those of Tf in serum.	

Assay Data

Bis-Tris PAGE



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

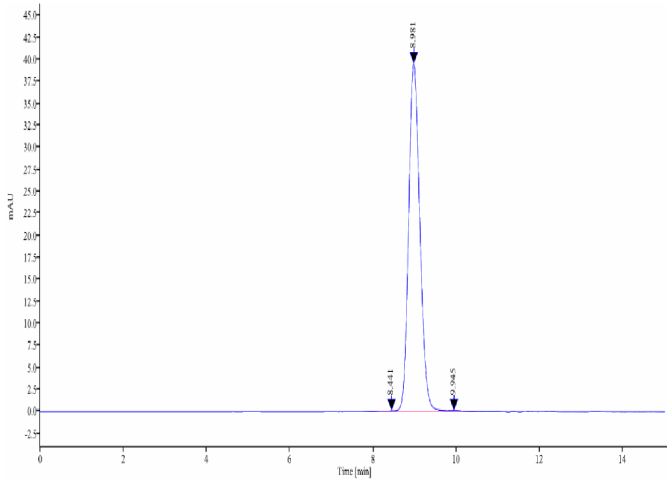
SEC-HPLC

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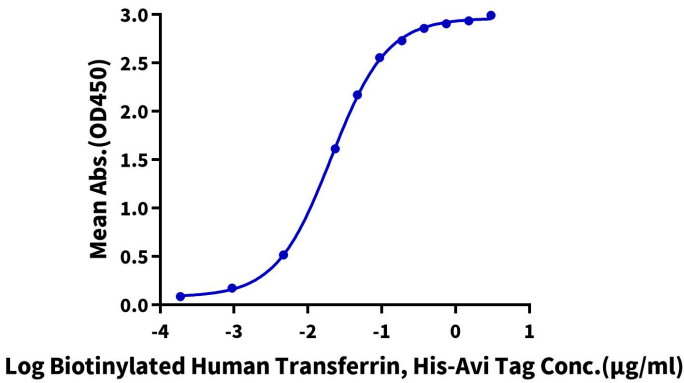
Assay Data



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

ELISA Data

Biotinylated Human Transferrin, His-Avi Tag ELISA
0.5µg Human Transferrin R, His Tag Per Well



Immobilized Human Transferrin R, His Tag at 5µg/ml (100µl/well) on the plate. Dose response curve for Biotinylated Human Transferrin, His Avi Tag with the EC50 of 20.8ng/ml determined by ELISA.