

# FITC-Labeled Human Transferrin Protein

Cat. No. TFN-HM101F



## Description

Source	Recombinant FITC-Labeled Human Transferrin Protein is expressed from HEK293 with His tag at the C-terminus.
	It contains Val20-Pro698.
Accession	AAH59367
Molecular Weight	The protein has a predicted MW of 76.3 kDa. Due to glycosylation, the protein migrates to 78-88 kDa based on Bis-Tris PAGE result.
Wavelength	Excitation Wavelength: 490 nm
	Emission Wavelength: 520 nm
Endotoxin	Less than 1EU per µg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE
	> 95% as determined by HPLC

## Formulation and Storage

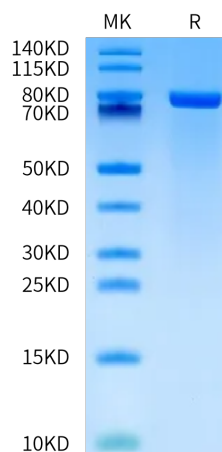
Formulation	Lyophilized from 0.22 µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3 months after reconstitution. 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  $\beta$ 1,4-GlcNAc and core  $\alpha$ 1,6-Fuc. The glycans of serum-type Tf in the CSF are similar to those of Tf in serum.

## Assay Data

### Bis-Tris PAGE



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

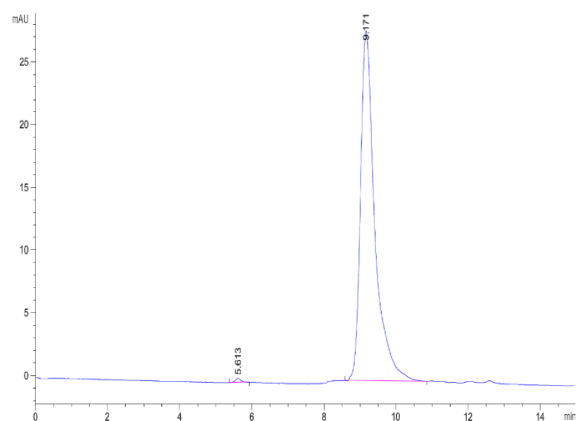
### SEC-HPLC

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## Assay Data



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

FITC-Labeled Human Transferrin Protein

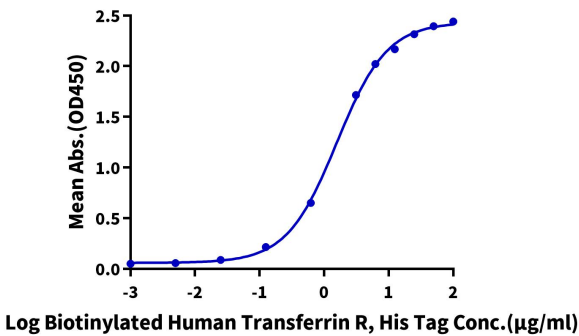
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Assay Data

ELISA Data

**FITC-Labeled Human Transferrin, His Tag ELISA**  
0.5µg FITC-Labeled Human Transferrin, His Tag Per Well



Immobilized FITC-Labeled Human Transferrin, His Tag at 5µg/ml (100µl/well) on the plate. Dose response curve for Biotinylated Human Transferrin R, His Tag with the EC50 of 1.58µg/ml determined by ELISA (QC Test).