

Biotinylated Mouse Transferrin Protein, His,Avitag™ (MALS verified)

Catalog # TRN-M82E3



BIOSYSTEMS
Acro

Synonym

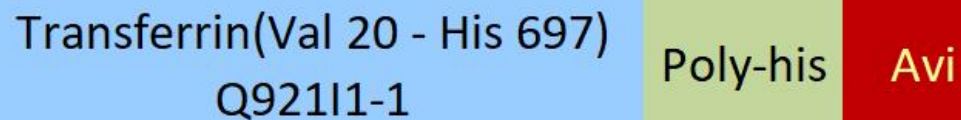
Transferrin, TF, DKFZp781D0156, PRO1557, PRO2086

Source

Biotinylated Mouse Transferrin Protein, His,Avitag (TRN-M82E3) is expressed from human 293 cells (HEK293). It contains AA Val 20 - His 697 (Accession # [Q92111-1](#)).

Predicted N-terminus: Val 20

Molecular Characterization



This protein carries a polyhistidine tag at the C-terminus, followed by an Avi tag (Avitag™).

The protein has a calculated MW of 78.7 kDa. The protein migrates as 75-95 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE) due to glycosylation.

Labeling

Biotinylation of this product is performed using Avitag™ technology. Briefly, the single lysine residue in the Avitag is enzymatically labeled with biotin.

Protein Ratio

Passed as determined by the HABA assay / binding ELISA.

Endotoxin

Less than 1.0 EU per µg by the LAL method / rFC method.

Purity

>90% as determined by SDS-PAGE.

>90% as determined by SEC-MALS.

Formulation

Lyophilized from 0.22 µm filtered solution in PBS, 0.2 M Arginine, pH7.4.

Contact us for customized product form or formulation.

Reconstitution

Please see Certificate of Analysis for specific instructions.

For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.

Storage

For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

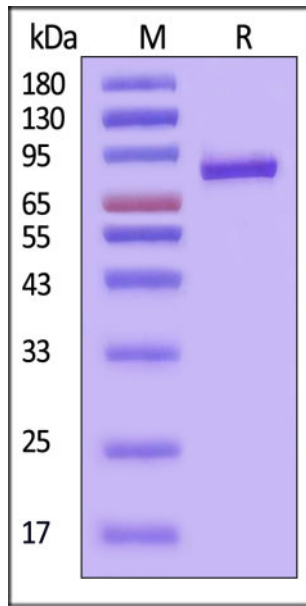
This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

ACRO Quality Management System

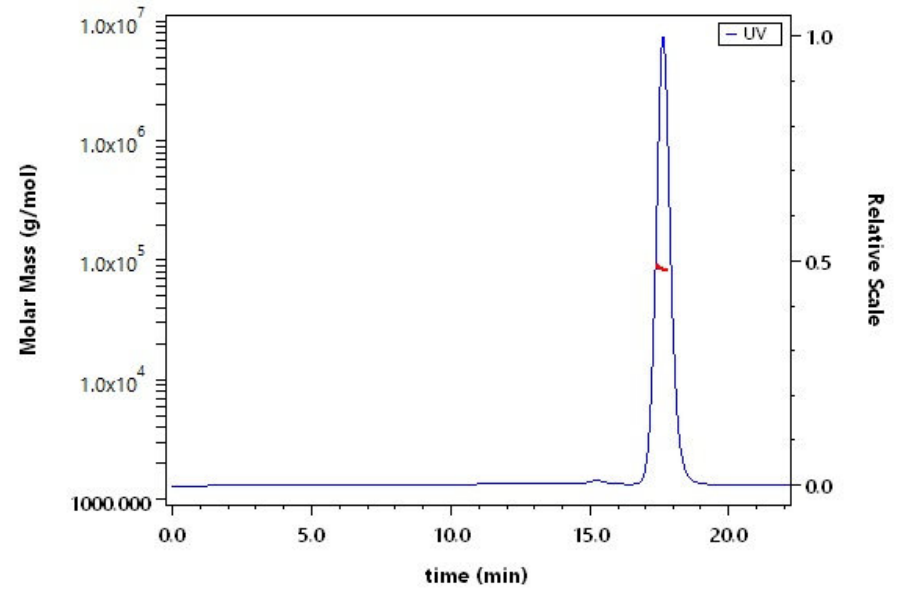
- [QMS\(ISO, GMP\)](#)
- [Quality Advantages](#)
- [Quality Control Process](#)

SDS-PAGE



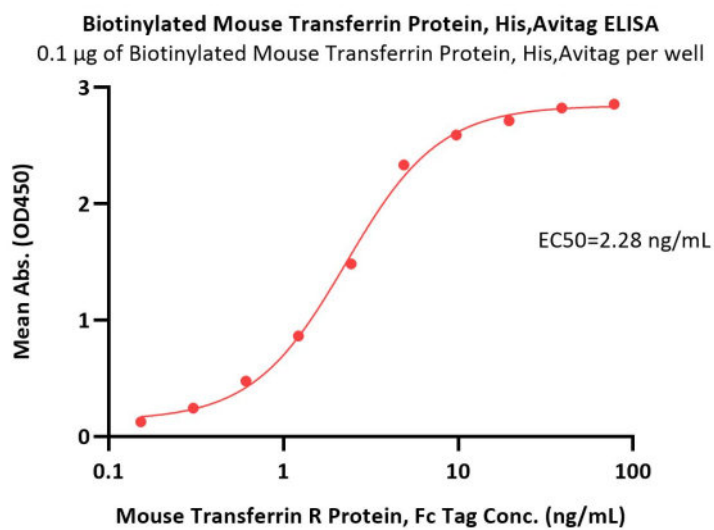
Biotinylated Mouse Transferrin Protein, His,Avitag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90% (With [Star Ribbon Pre-stained Protein Marker](#)).

SEC-MALS



The purity of Biotinylated Mouse Transferrin Protein, His,Avitag (Cat. No. TRN-M82E3) is more than 90% and the molecular weight of this protein is around 80-100 kDa verified by SEC-MALS.

Bioactivity-ELISA



Immobilized Biotinylated Mouse Transferrin Protein, His,Avitag (Cat. No. TRN-M82E3) at 1 µg/mL (100 µL/well) on streptavidin (Cat. No. STN-N5116) precoated (0.5 µg/well) plate can bind Mouse Transferrin R Protein, Fc Tag (Cat. No. TFR-M5263) with a linear range of 0.2-5 ng/mL (QC tested).

Background

Transferrin (TF), also known as Serotransferrin or Beta-1 metal-binding globulin, is an iron-binding glycoprotein in blood plasma responsible for controlling free iron levels in biological fluids. It represents the most dynamic iron pool in the body, exhibiting high affinity for Fe(III) at physiological pH. This 679-amino acid polypeptide, primarily synthesized in the liver, comprises two globular lobes (N- and C-terminal) forming iron-binding sites. Transferrin plays a key role in iron withholding within the innate immune system, exerting a bacteriocidal effect. Its levels decrease during inflammation, and it significantly influences plutonium biochemistry in humans. Carbohydrate-deficient transferrin serves as a biomarker for heavy ethanol consumption.

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