

Biotinylated Cynomolgus Transferrin R/CD71 Protein

Cat. No. TFR-CM401B

Description

Source	Recombinant Biotinylated Cynomolgus Transferrin R/CD71 Protein is expressed from HEK293 with His tag and Avi tag at the N-terminus. It contains Cys89-Phe760.
Accession	NP_001244232.1
Molecular Weight	The protein has a predicted MW of 78.1 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	> 90% as determined by Bis-Tris PAGE > 90% as determined by HPLC

Formulation and Storage

Formulation	Lyophilized from 0.22 μm filtered solution in PBS, 8% trehalose (pH 7.4).
Reconstitution	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
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

The transferrin receptor (CD71) is known as a receptor for IgA1 on mesangial cells. The transcript and protein expression of glomerular CD71 was determined by real-time polymerase chain reaction and immunohistochemistry. Human mesangial cells (HMCs) were treated with sera from IgAN patients and expression levels of CD71 and inflammatory cytokine markers were compared according to disease status.

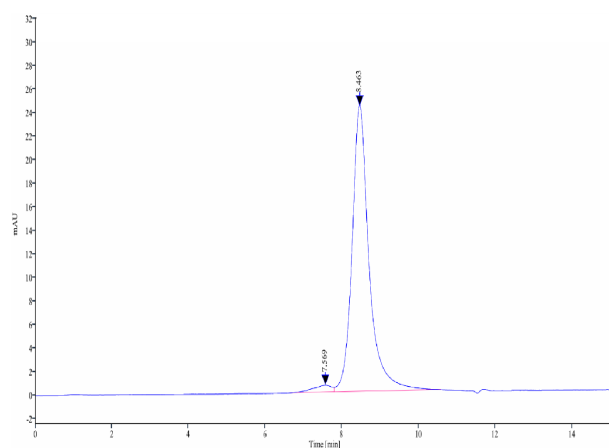
Assay Data

Bis-Tris PAGE



Biotinylated Cynomolgus Transferrin R on Bis-Tris PAGE under reduced condition. The purity is greater than 90%.

SEC-HPLC



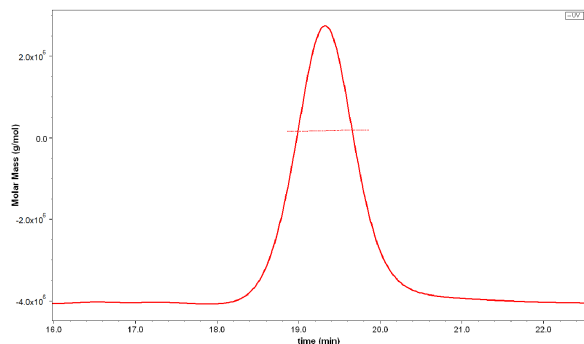
The purity of Biotinylated Cynomolgus Transferrin R is greater than 90% as determined by SEC-HPLC.

Biotinylated Cynomolgus Transferrin R/CD71 Protein

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Assay Data

SEC-MALS

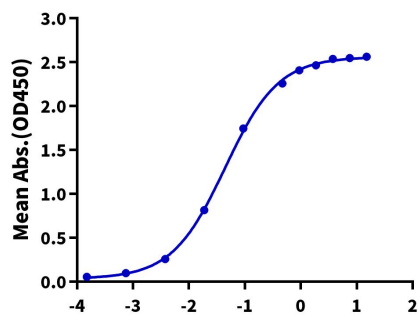


The purity of Biotinylated Cynomolgus Transferrin R is greater than 90% and the molecular weight of this protein is around 160-180 kDa as determined by SEC-MALS.

ELISA Data

Biotinylated Cynomolgus Transferrin R, His Avi Tag ELISA

0.1 μ g Human Transferrin, His Tag Per Well



Immobilized Human Transferrin, His Tag (Cat. TFN-HM101) at 1 μ g/ml (100 μ l/well) on the plate. Dose response curve for Biotinylated Cynomolgus Transferrin R, His Avi Tag with the EC50 of 44.4ng/ml determined by ELISA.