

Biotinylated Human TLR3 Protein

Cat. No. TLR-HM403B

Description

Source	Recombinant Biotinylated Human TLR3 Protein is expressed from HEK293 with His tag and Avi tag at the C-terminus. It contains Ser23-Glu703.
Accession	Q6PCD4
Molecular Weight	The protein has a predicted MW of 80.25 kDa. Due to glycosylation, the protein migrates to 100-120 kDa based on Tris-Bis PAGE result.
Endotoxin	Less than 1EU per µg by the LAL method.
Purity	> 95% as determined by Tris-Bis PAGE > 95% as determined by HPLC

Formulation and Storage

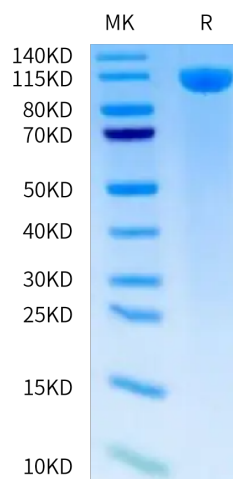
Formulation	Lyophilized from 0.22 µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3-6 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.

Background

TLR3 is expressed in the central nervous system (CNS), where it is required to control HSV-1, which spreads from the epithelium to the CNS via cranial nerves. TLR3 is also expressed in epithelial and dendritic cells, which apparently use TLR3-independent pathways to prevent further dissemination of HSV-1 and to provide resistance to other pathogens in TLR3-deficient patients. Human TLR3 appears to be redundant in host defense to most microbes but is vital for natural immunity to HSV-1 in the CNS, which suggests that neurotropic viruses have contributed to the evolutionary maintenance of TLR3.

Assay Data

Tris-Bis PAGE



Biotinylated Human TLR3 on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

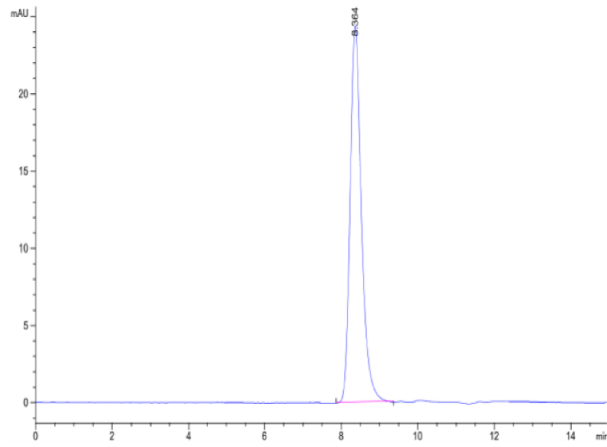
SEC-HPLC

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Assay Data



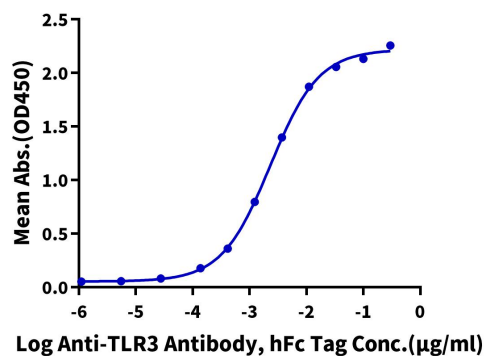
The purity of Biotinylated Human TLR3 is greater than 95% as determined by SEC-HPLC.

Assay Data

ELISA Data

Biotinylated Human TLR3, His Tag ELISA

0.05µg Biotinylated Human TLR3, His Tag Per Well



Immobilized Biotinylated Human TLR3, His Tag at 0.5µg/ml (100µl/Well) on streptavidin (5µg/ml) precoated plate. Dose response curve for Anti-TLR3 Antibody, hFc Tag with the EC50 of 2.3ng/ml determined by ELISA.