

Biotinylated Human TLR3 Protein (Primary Amine Labeling)

Cat. No. TLR-HM103B

Description	
Source	Recombinant Biotinylated Human TLR3 Protein (Primary Amine Labeling) is expressed from HEK293 with His tag at the C-Terminus. It contains Ser23-Glu703.
Accession	Q6PCD4
Molecular Weight	The protein has a predicted MW of 78.7 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

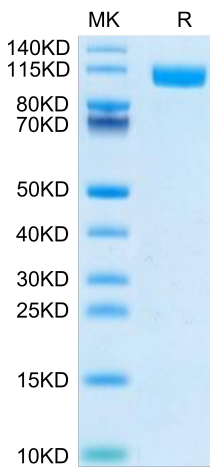
Formulation and Storage	
Formulation	Supplied as 0.22µm filtered solution in PBS (pH 7.4).
Storage	Valid for 12 months from date of receipt when stored at -80°C. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Background

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.

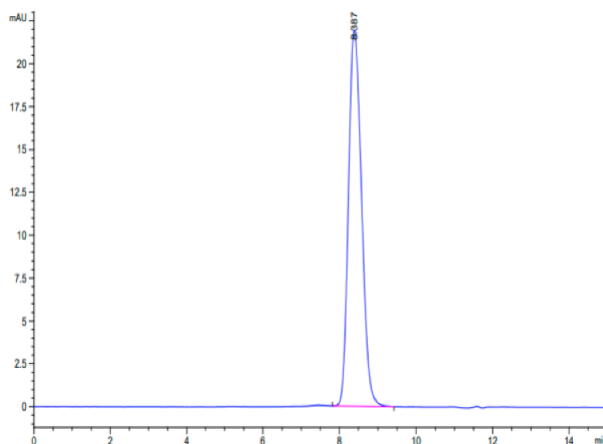
Assay Data

Tris-Bis PAGE



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

SEC-HPLC



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

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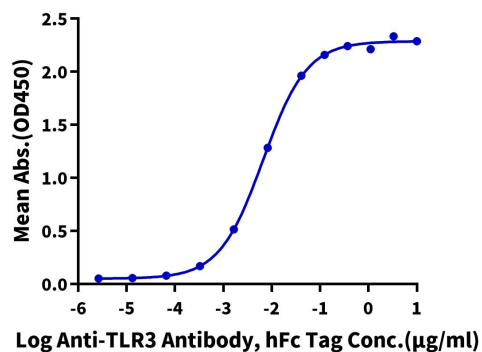
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Assay Data

ELISA Data

Biotinylated Human TLR3, His Tag ELISA

0.05 μ g Biotinylated Human TLR3, His Tag Per Well



Immobilized Biotinylated Human TLR3, His Tag at 0.5 μ g/ml (100 μ l/well) on the streptavidin precoated plate (5 μ g/ml). Dose response curve for Anti-TLR3 Antibody, hFc Tag with the EC50 of 6.6ng/ml determined by ELISA.