Delivery



PRODUCT INFORMATION

Target TLR7

Synonyms IMD74; TLR7-like

DescriptionHuman TLR7 full length protein-synthetic

nanodisc In Stock

Uniprot ID Q9NYK1 Expression Host HEK293

Storage & Shipping

Background

Protein Families Druggable Genome, Transmembrane
Protein Pathways Toll-like receptor signaling pathway

Molecular Weight

The human full length TLR7 protein has a MW of

120.9 kDa

Lyophilized from nanodisc solubilization buffer (20 mM Tris-HCl, 150 mM NaCl, pH 8.0). Normally 5%

- 8% trehalose is added as protectants before lyophilization. Please see Certificate of Analysis for specific instructions. Do not use solvents with pH lower than 6.5 in subsequent experiments.

Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing).

Lyophilized proteins are shipped at ambient temperature.

The protein is a member of the Toll-like receptor (TLR) family which plays a fundamental role in pathogen recognition and activation of innate immunity. TLRs are highly conserved from Drosophila to humans and share structural and functional similarities. The human TLR family comprises 11 members. They recognize pathogen-associated molecular patterns (PAMPs)

pathogen-associated molecular patterns (PAMPs) that are expressed on infectious agents, and mediate the production of cytokines necessary for the development of effective immunity. For the recognition of structural components in foreign microorganisms, the various TLRs exhibit

different patterns of expression as well; in this way for example, TLR-3, -7, and -8 are essential in the recognition of single-stranded RNA viruses. TLR7 senses single-stranded RNA oligonucleotides containing guanosine- and uridine-rich sequences from RNA viruses, a recognition occuring in the endosomes of plasmacytoid dendritic cells and B

Email: info@dimabio.com Website: www.dimabio.com

cells.

Usage Research use only



Address: Wuhan institute of Biotechnology B7, Biolake No.666 Gaoxin Road, Wuhan, Hubei, China Telephone: +1 2409940618(USA) /+86-18062749453(China) /+86-400-006-0995(China)



ELISA assay to evaluate TLR7-Nanodisc 0.2µg Human TLR7-Nanodisc per well

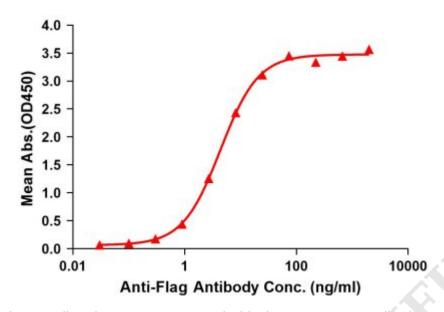


Figure 1. Elisa plates were pre-coated with Flag Tag TLR7-Nanodisc (0.2µg/per well). Serial diluted anti-Flag monoclonal antibody solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC50 for anti-Flag monoclonal antibody binding with TLR7-Nanodisc is 4.389ng/ml.

Email: info@dimabio.com Website: www.dimabio.com



Figure 2. Human TLR7-Nanodisc, Flag Tag on SDS-PAGE

Address: Wuhan institute of Biotechnology B7, Biolake No.666 Gaoxin Road, Wuhan, Hubei, China Telephone: +1 2409940618(USA) /+86-18062749453(China) /+86-400-006-0995(China)