

HUMAN TLR7 FULL LENGTH PROTEIN

目录: 11125

产品名称: Human TLR7 Full Length Protein

规格: 10 µg, 50 µg and 100 µg

基因符号: IMD74; TLR7-like

Target: TLR7

UNIPROT ID: Q9NYK1

描述: Human TLR7 full length protein-synthetic nanodisc

背景: 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) 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 occurring in the endosomes of plasmacytoid dendritic cells and B cells.

Species/Host: HEK293

Molecular Weight: The human full length TLR7 protein has a MW of 120.9 kDa

Formulation & Reconstitution: 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.

储存和运输: 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.

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

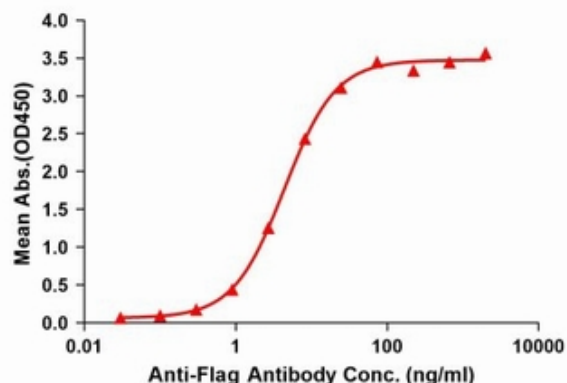


Figure1. Elisa plates were pre-coated with Flag Tag TLR7-Nanodisc (0.2 µg/per well). Serial diluted Flag monoclonal antibody solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC50 for Flag monoclonal antibody binding with TLR7-Nanodisc is 4.389ng/ml.



Figure2. Human TLR7-Nanodisc, Flag Tag on SDS-PAGE