HUMAN TLR9 FULL LENGTH PROTEIN

Cat.#:   11127

Product Name: Human TLR9 Full Length Protein

Size :   10 µg, 50 µg and 100 µg

Synonyms: CD289

Target: TLR9

UNIPROT ID: Q9NR96

Description: Human TLR9 full length protein-synthetic nanodisc

Background: 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. 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. Studies in mice and human indicate that this receptor mediates cellular response to unmethylated CpG dinucleotides in bacterial DNA to mount an innate immune response.

Species/Host: HEK293

Molecular Weight: The human full length TLR9 protein has a MW of 115.9 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.

Storage & Shipping: Store at -20ºC to -80ºC for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80ºC (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature.
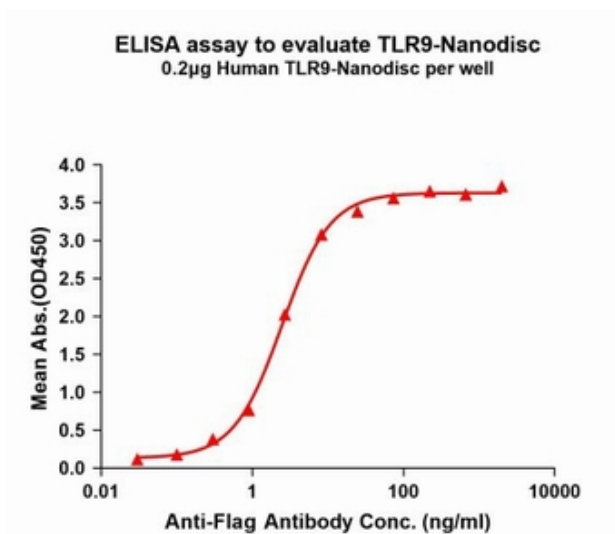
Figure1. Elisa plates were pre-coated with Flag Tag TLR9-Nanodisc (0.2 µg/per well). Serial diluted anti-Flag monoclonal antibody solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC50 for anti-Flag monoclonal antibody binding with TLR9-Nanodisc is 2.467ng/ml.

Figure2. Human TLR9-Nanodisc, Flag Tag on SDS-PAGE