

PRODUCT INFORMATION

Tag	C-Flag Tag
Expression Host	HEK293
Target	TLR5
Synonyms	MELIOS; SLE1; SLEB1; TIL3
Description	Human TLR5 full length protein-synthetic nanodisc
Uniprot ID	O60602
Protein Families	Druggable Genome, Transmembrane
Protein Pathways	Pathogenic Escherichia coli infection, Toll-like receptor signaling pathway
Molecular Weight	The human full length TLR5 protein has a MW of 97.8 kDa
Delivery	In Stock
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. Please see Certificate of Analysis for specific instructions. Do not use solvents with a pH below 6.5 or those containing high concentrations of divalent metal ions (greater than 5 mM) in subsequent experiments.
Sterility	Products are supplied non-sterile. For cell culture applications, dilute in appropriate medium and sterile-filter (0.22 µm) prior to use.
Storage&Shipping	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.
Background	Toll-like receptor (TLR) family plays a fundamental role in pathogen recognition and activation of innate immune responses. These receptors recognize distinct pathogen-associated molecular patterns that are expressed on infectious agents. The protein encoded by this gene recognizes bacterial flagellin, the principal component of bacterial flagella and a virulence factor. The activation of this receptor mobilizes the nuclear factor NF-kappaB, which in turn activates a host of inflammatory-related target genes. Mutations in this gene have been associated with both resistance and susceptibility to systemic lupus erythematosus, and susceptibility to Legionnaire disease.
Usage	Research use only
Conjugate	Unconjugated



ELISA assay to evaluate TLR5-Nanodisc 0.2 μ g Human TLR5-Nanodisc per well

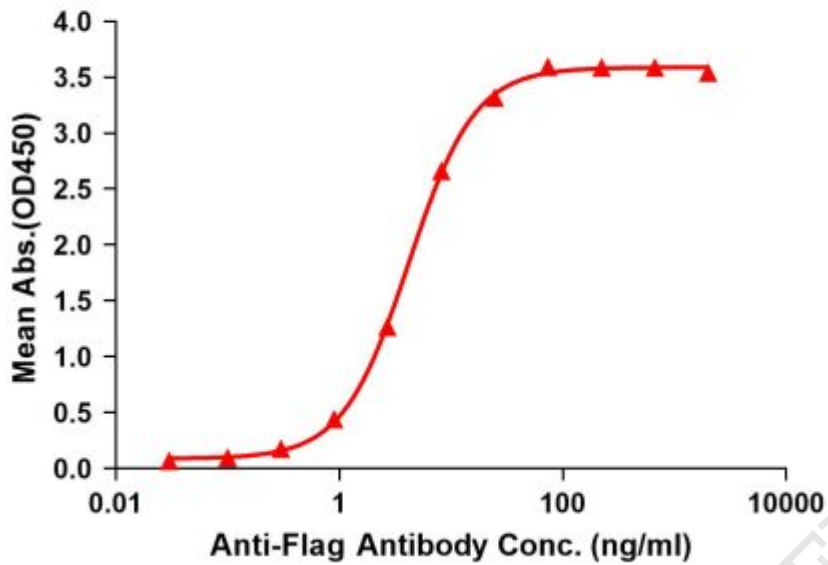


Figure1. Elisa plates were pre-coated with Flag Tag TLR5-Nanodisc (0.2 μ g/per well). Serial diluted anti-Flag monoclonal antibody solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC50 for anti-Flag monoclonal antibody binding with TLR5-Nanodisc is 4.191ng/ml.



Figure2. Human TLR5-Nanodisc, Flag Tag on SDS-PAGE

