PRODUCT INFORMATION

Tag	C-Flag Tag
Expression Host	HEK293
Target	TLR5
Synonyms	MELIOS; SLE1; SLEB1; TIL3
Description	Human TLR5 full length protein-MNP
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 PBS. Normally 5% – 8% trehalose is added as protectants before lyophilization. Please see Certificate of Analysis for specific instructions.
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

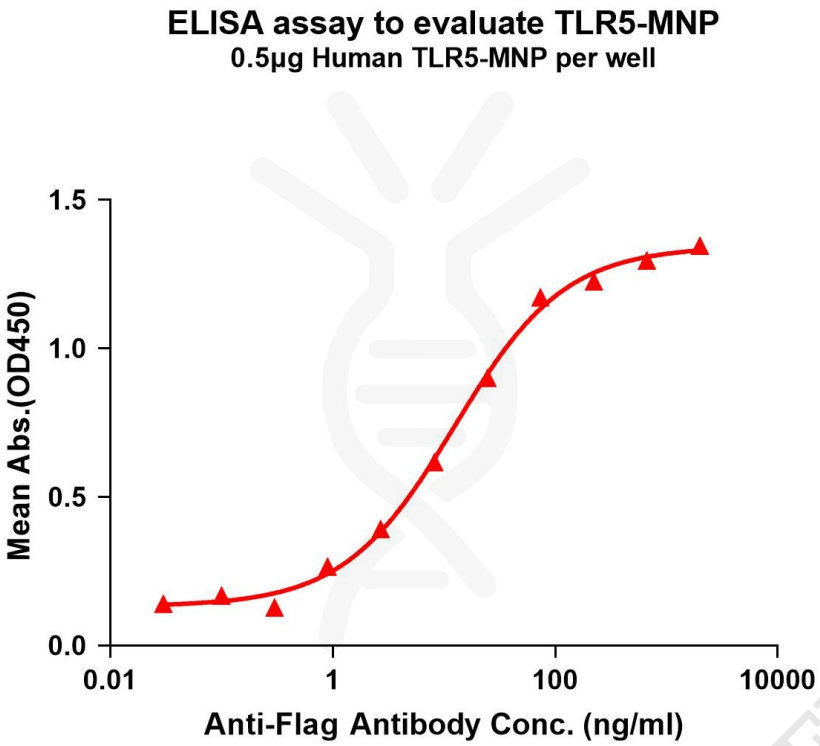

Figure 1. Elisa plates were pre-coated with 0.5μg/per well purified human TLR5 full length membrane nanoparticles. Serial diluted anti-Flag monoclonal antibody solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC50 for anti-Flag monoclonal antibody binding with TLR5 full length membrane nanoparticles is 12.46ng/ml.