PRODUCT INFORMATION

Tag	C-Flag&Strep Tag
Target	TLR5
Synonyms	MELIOS; SLE1; SLEB1; TIL3
Description	Human TLR5-Strep full length protein-synthetic nanodisc
Delivery	6~8weeks
Uniprot ID	O60602
Expression Host	HEK293
Protein Families	Druggable Genome, Transmembrane
Protein Pathways	Pathogenic Escherichia coli infection, Toll-like receptor signaling pathway
Molecular Weight	The human full length TLR5-Strep protein has a MW of 97.8 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. 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.
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

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