

## **PRODUCT INFORMATION**

Tag	C-Flag&Strep Tag
Target	TLR4
Synonyms	ARMD10; CD284; TLR-4; TOLL
Description	Human TLR4-Strep full length protein-synthetic nanodisc
Delivery	In Stock
Uniprot ID	000206
<b>Expression Host</b>	HEK293
<b>Protein Families</b>	Druggable Genome, Transmembrane
Protein Pathways	Toll-like receptor signaling pathway
Molecular Weight Formulation & Reconstitution	The human full length TLR4-Strep protein has a MW of 95.7 kDa 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	(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 that are expressed on infectious agents, and mediate the production of cytokines necessary for the development of effective immunity. The various TLRs exhibit different patterns of expression. In silico studies have found a particularly strong binding of surface TLR4 with the spike protein of severe acute respiratory syndrome coronavirus 2 (SARS- CoV-2), the causative agent of Coronavirus disease-2019 (COVID-19). This receptor has also been implicated in signal transduction events induced by lipopolysaccharide (LPS) found in most gram-negative bacteria. Mutations in this gene have been associated with differences in LPS responsiveness, and with susceptibility to age-related macular degeneration.
Usage	Research use only
Conjugate	Unconjugated

Email: info@dimabio.com Website: www.dimabio.com









Figure 1. Elisa plates were pre-coated with C-Flag&Strep Tag TLR4-Strep-Nanodisc ( $0.2\mu$ 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 TLR4-Strep-nanodisc is 2.447ng/ml.





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