

## **PRODUCT INFORMATION**

Tag C-Flag&Strep Tag

Target TLR4

**Synonyms** ARMD10; CD284; TLR-4

**Description**Human TLR4-Strep full length protein-synthetic

Delivery nanodisc

6~8weeks

Uniprot ID 000206

**Expression Host** HEK293

**Protein Families** Druggable Genome, Transmembrane

Protein Pathways Toll-like receptor signaling pathway

Molecular Weight

The human full length TLR4-Strep protein has a

MW of 95.7 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

Storage & Shipping

Storag

Lyophilized proteins are shipped at ambient

témperature.

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 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

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

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age-related macular degeneration.

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Conjugate Unconjugated



**Background**