

Active Recombinant Human TLR4 Protein, His-tagged

Cat. No. TLR4-290H Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant Human TLR4 with His tag was expressed in NS0 cell.

Species Human

Source Mammalian Cells

Description The protein encoded by this gene 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. This receptor has 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. Multiple transcript variants encoding different isoforms have been found for this gene.

Bio-activity Measured by its binding ability in a functional ELISA. When Recombinant Human (rh) TLR4 is immobilized at 2 µg/mL (100 µL/well), the concentration of rhMD2 that produces 50% optimal binding response is found to be approximately 0.03-0.15 µg/mL.

Molecular Mass Predicted Molecular Weight: 70.6 kDa

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	SDS-PAGE: 90-95 kDa, reducing conditions
Endotoxin	<0.10 EU per 1 µg of the protein by the LAL method
Purity	>95% by SDS-PAGE
Storage	Store at -20 to -80 centigrade in a manual defrost freezer. Avoid Repeated Freeze Thaw Cycles.
Reconstitution	Reconstitute at 100 µg/mL in PBS.

GENE INFORMATION

Gene Name	TLR4 toll like receptor 4 [Homo sapiens (human)]
Official Symbol	TLR4
Synonyms	TLR4; toll like receptor 4; TOLL; CD284; TLR-4; ARMD10; toll-like receptor 4; hToll; homolog of Drosophila toll; toll like receptor 4 protein; EC 3.2.2.6
Gene ID	7099
mRNA Refseq	NM_003266
Protein Refseq	NP_003257
MIM	603030
UniProt ID	O00206

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