

Recombinant Full Length Human TLR4 Protein, C-Flag-tagged

Cat. No. TLR4-614HFL Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human TLR4 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
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. 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. Multiple transcript variants encoding different isoforms have been found for this gene.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.

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Molecular Mass	93.2 kDa
AA Sequence	MSASRLAGTLIPAMAFSLCVRPESWEPCVEVVPNITYQCMELNFYKIPDNLPFSTKN LDLSFNPLRHLGS YSFFSFPELQVLDLSRCEIQTIEDGAYQSLSHLSTLILTGNPIQSL ALGAFSGLSSLQKLVAVETNLASL ENFPIGHLKTLKELNVAHNLIQSFKLPEYFSNLT NLEHLDLSSNKIQSIYCTDLRVLHQMPLLNLSLDLS LNPMNFIQPGAFKEIRLHKLTLR NNFDSLNVMTKCIQGLAGLEVHRLVLGEFRNEGNLEKFDKSALEGLC NLTIEEFRLA YLDYYLDDIIDLFNCLTNVSSFSLSVSVTIERVKDFSYNFGWQHLELVNCKFGQFPTLK LK SLKRLTFTSNKGGNAFSEVDLPSLEFLDLSRNGLSFKGCCSQSDFGTTSLKYLDL SFNGVITMSSNFLGL EQLEHLDFQHSNLKQMSEFSVFLSLRNLIYLDISHTHTRVAFN GIFNGLSSLEVLMAGNSFQENFLPDI FTELRLNLTFLDLSQCQLEQLSPTAFNSLSSL QVLNMSHNNFFSLDTPYKCLNSLQVLDYSLNHIMTSKK QELQHFPSLSLAFLNLTQN DFACTCEHQSFQWIKDQRQLLVEVERMECATPSDKQGMPVLSLNITCQMNK TIIG VSVLSVLVSVVAVLVYKFYFHLMLLAGCIKYGRGENIYDAFVIYSSQDEDWVRNELV KNLEEGVP PFQLCLHYRDFIPGVAIAANIIHEGFHKSARKVIVVVSQHFIQSRWCIFEYE IAQTWQFLSSRAGIIFIVL QKVEKTLRQQVELYRLLSRNTYLEWEDSVLGRHIFWRR LRKALLDGKSWNPEGTVGTGCNWQEATSITRTRPLEQKLISEEDLAANDILDYKDDD DKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.

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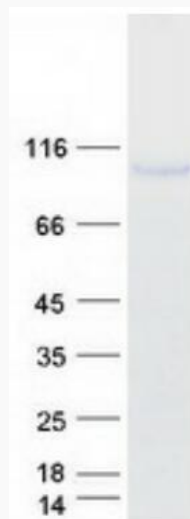
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Protein Families	Druggable Genome, Transmembrane
Protein Pathways	Pathogenic Escherichia coli infection, Toll-like receptor signaling pathway
Full Length	Full L.
GENE INFORMATION	
Gene Name	TLR4 toll like receptor 4 [Homo sapiens (human)]
Official Symbol	TLR4
Synonyms	TOLL; CD284; TLR-4; ARMD10
Gene ID	7099
mRNA Refseq	NM_138554.5
Protein Refseq	NP_612564.1
MIM	603030
UniProt ID	O00206

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Coomassie blue staining of purified TLR4 protein.

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