

Recombinant Human TLR4

Cat. No. TLR4-293H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	HumanTLR4 full-length ORF recombinant protein without tag was expressed in wheatgerm.
Species	Human
Source	Wheat Germ
Description	The protein encoded by this gene is a member of the Toll-likereceptor (TLR) family which plays a fundamental role in pathogen recognitionand activation of innate immunity. TLRs are highly conserved from Drosophilato humans and share structural and functional similarities. They recognizepathogen-associated molecular patterns (PAMPs) that are expressed oninfectious agents, and mediate the production of cytokines necessary for thedevelopment of effective immunity. The various TLRs exhibit different patternsof expression. This receptor is most abundantly expressed in placenta, and inmyelomonocytic subpopulation of the leukocytes. It has been implicated insignal transduction events induced by lipopolysaccharide (LPS) found in mostgram-negative bacteria. Mutations in this gene have been associated withdifferences in LPS responsiveness. Also, several transcript variants of thisgene have been found, but the protein coding potential of most of them isuncertain.
Form	25mM Tris-HCl of pH8.0 containing 2% glycerol.
Molecular Weight	99.7kDa
Sequences of	MPLLNLSDLNPMNFIQPGAFKEIRLHKLTLRNNFDSLNVMTKCIQGLAGLEVHRL

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aminoacids

VLGEFRNEGNLEKFDKSALEGLCNLTIEEFRLAYLDYYLDDIIDLFNCLTNVSSFSLSVS
VTIERVKDFSYNFGWQHLELVNCKFGQFPTLKLKSLKRLTFTSNKGGNAFSEVDLPS
LEFLDLSRNGLSFKGCCSQSDFGTTSLKYLDLSFNGVITMSSNFLGLEQLEHLDFQH
SNLKQMSEFSVFLSLRNLIYLDISHTHTRVAFNGIFNGLSSLEVLMAGNSFQENFLP
DIFTELRLNTFLDLSQCQLEQLSPTAFNSLSSLQVLNMSHNNFFSLDTFPYKCLNSLQ
VLDYSLNHIMTSKKQELQHFPSSLAFLNLTQNDFACTCEHQSFQWIKDQRQLLVEV
ERMECATPSDKQGMPLVSLNITCQMNKTIIGVSVLSVLVSVVAVLVYKFYFHLMLLA
GCIKYGRGENIYDAFVIYSSQDEWVRNELVKNLEEGVPPFQLCLHYRDFIPGVAIAA
NIIHEGFHKSRKVIVVVSQHFIQSRWCIFEYEAQTWQFLSSRAGIIFIVLQKVEKTLLR
QQVELYRLLSRNTYLEWEDSVLGRHIFWRRLRKALLDGKSWNPEGTVGTGCNWQE
ATSI

Storage

Store at -80°C. Aliquot to avoid repeated freezing and thawing. Best use within three months from the date of receipt of this protein.

GENE INFORMATION

Gene Name TLR4 toll-like receptor 4 [Homo sapiens]

Official Symbol TLR4

Synonyms TLR4; toll-like receptor 4; TOLL; CD284; TLR-4; ARMD10; toll-like receptor 4; hToll; homolog of Drosophila toll; CD284antigen; OTTHUMP00000022807

Gene ID 7099

mRNA Refseq NM_003266

Protein Refseq NP_003257

MIM 603030

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UniProt ID	O00206
Chromosome Location	9q33.1
Pathway	Activated TLR4 signalling; Amoebiasis; IKK complex recruitment mediated by RIP1; Immune System; Influenza A; Innate Immune System; Leishmaniasis; MyD88 cascade initiated on plasma membrane; Pathogenic Escherichia coli infection; Pertussis; Rheumatoid arthritis; TRAF6 mediated induction of TAK1 complex; Toll Like Receptor 10 (TLR10) Cascade; Toll Like Receptor 2 (TLR2) Cascade; Toll Receptor Cascades; Toll-like receptor signaling pathway
Function	lipopolysaccharide binding; lipopolysaccharide receptor activity; phosphatidylinositol 3-kinase binding; protein binding; receptor activity; membrane signaling receptor activity
PDB rendering based on 2z64.	