

Recombinant Full Length Human TLR4 Protein

Cat. No. TLR4-526HF Lot. No. (See product label)

SPECIFICATION

Product Overview	Human TLR4 full-length ORF recombinant protein without tag was expressed in wheatgerm.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	46 amino acids
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 (PAMPs) 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 is most abundantly expressed in placenta, and in myelomonocytic subpopulation of the leukocytes. It 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. Also, several transcript variants of this gene have been found, but the protein coding potential of most of them is uncertain.
Form	25mM Tris-HCl of pH8.0 containing 2% glycerol.
Molecular Mass	99.7kDa

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AA Sequence

MPLLNLSDLSLNPMNFIQPGAFKEIRLHKLTLRNNFDSLNVMTKCIQGLAGLEVHRL
 VLGEFRNEGNLEKFDKSALEGLCNLTIEEFRLAYLDYYLDDIIDLFNCLTNVSSFSLVS
 VTIERVKDFSYNFGWQHLELVNCKFGQFPTLKLKSLKRLTFTSNKGGNAFSEVDLPS
 LEFLDLSRNGLSFKGCCSQSDFGTTSLKYLDLSFNGVITMSSNFLGLEQLEHLDFQH
 SNLKQMSEFSVFLSLRNLIYLDISHTHTRVAFNGIFNGLSSLEVLKMAGNSFQENFLP
 DIFTELRLNTFLDLSQCQLEQLSPTAFNSLSSLQVLNMSHNNFFSLDTFPYKCLNSLQ
 VLDYSLNHIMTSKKQELQHFPSSLAFLNLTQNDFACTCEHQSFLQWIKDQRQLLVEV
 ERMECATPSDKQGMPVLSNITCQMNKTIIGVSVLSVLVSVVAVLVYKFYFHLMLLA
 GCIKYGRGENIYDAFVIYSSQDEDWVRNELVKNLEEGVPPFQLCLHYRDFIPGVAIAA
 NIIHEGFHKSRKVIVVVSQHFQSRWCIFEYEAQWQFLSSRAGIIFIVLQKVEKTLRL
 QQVELYRLLSRNTYLEWEDSVLGRHIFWRRLRKALLDGKSWNPEGTVGTGCNWQE
 ATSI

Storage

Store at -80 centigrade. 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](#)

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MIM	603030
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UniProt ID	O00206
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