

## Recombinant Full Length Human TLR4 Protein

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

### SPECIFICATION

<b>Product Overview</b>	Human TLR4 full-length ORF recombinant protein without tag was expressed in wheatgerm.
<b>Species</b>	Human
<b>Source</b>	In Vitro Cell Free System
<b>ProteinLength</b>	46 amino acids
<b>Description</b>	<p>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.</p>
<b>Form</b>	25mM Tris-HCl of pH8.0 containing 2% glycerol.
<b>Molecular Mass</b>	99.7kDa

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**AA Sequence**

MPLLNLSDLNPMNFIQPGAFKEIRLHKLTRNNFDSLNVMTKCIQGLAGLEVHRL  
 VLGEFRNEGNLEKFDKSALEGLCNLTIEEFRLAYLDYYLDDIIDLFNCLTNVSSFSLV  
 VTIERVKDFSYNFGWQHLELVNCKFGQFPTLKLKSLKRLTFTSNKGGNAFSEVDLPS  
 LEFLDLSRNGLSFKGCCSQSDFGTTSLKYLDLSFNGVITMSSNFLGLEQLEHLDFQH  
 SNLKQMSEFSVFLSLRNLIYLDISHTHTRVAFNGIFNGLSSLEVLKMAGNSFQENFLP  
 DIFTELRLNLTFLDLSQCQLEQLSPTAFNSLSSLQVLNMSHNNFFSLDTFPYKCLNSLQ  
 VLDYSLNHIMTSKKQELQHFPSLAFLNLTQNDFACTCEHQSFLQWIKDQRQLLVEV  
 ERMECATPSDKQGMPVLSLNICQMNKTIIGVSVLSVLVSVVAVLVYKFFHMLLLA  
 GCIKYGRGENIYDAFVIYSSQDEDWVRNELVKNLEEGVPPFQLCLHYRDFIPGVAIAA  
 NIIHEGFHKSRRKVVVVSQHFIQSRWCIFEYEAQWQFLSSRAGIIFIVLQKVEKTLRL  
 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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<b>MIM</b>	603030
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<b>UniProt ID</b>	O00206
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