

## Recombinant Human TLR4, GST-tagged

**Cat. No.** TLR4-292H    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Human TLR4 full-length ORF (1 aa-639 aa) recombinant protein fused with GST-tag at N-terminal was expressed in wheat germ.
<b>Species</b>	Human
<b>Source</b>	Wheat Germ
<b>Description</b>	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.
<b>Form</b>	50mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
<b>Molecular Weight</b>	99.7kDa
<b>Purification</b>	Glutathione Sepharose 4 Fast Flow
<b>Sequences of amino acids</b>	MPLLNLSLDLSLNPMNFIQPGAFKEIRLHKLTLRNNFDSLNVMKTCIQGLAGLEVHRL VLGEFRNEGNLEKFDKSALEGLCNLTIEEFRLAYLDYYLDDIIDLFNCLTNVSSFSLVS VTIERVKDFSYNFGWQHLELVNCKFGQFP TLKLSLKR LFTFTSNKGGNAFSEVDLPS

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

LEFLDLSRNGLSFKGCCSQSDFGTTSLKYLDLSFNGLVITMSSNFLGLEQLEHLDFQH  
 SNLKQMSEFSVFLSLRNLIYLDISHHTRVAFNGIFNGLSSLEVLKMGNSFQENFLP  
 DIFTELRNLTFLDLSQCQLEQLSPTAFNSLSSLQVLNMSHNNFFSLDTFPYKCLNSLQ  
 VLDYSLNHIMTSKKQELQHFPSSLAFLNLTQNDFACTCEHQSFQWIKDQRQLLVEV  
 ERMECATPSDKQGMPVLSLNITCQMNKTIIGVSVLSVLVSVVAVLVYKFYFHLMLLA  
 GCIKYGRGENIYDAFVIYSSQDEDWVRNELVKNLEEGVPPFQLCLHYRDFIPGVAIAA  
 NIIHEGFHKSRKVIVVVSQHFQSRWCIFEYEAQWQFLSSRAGIIFIVLQKVEKTLR  
 QQVELYRLLSRNTYLEWEDSVLGRHIFWRRLRKALLDGKSWNPEGTVGTGCNWQE  
 ATSI

**Storage** Store at -80°C. Aliquot to avoid repeated freezing and thawing.

## 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](#)

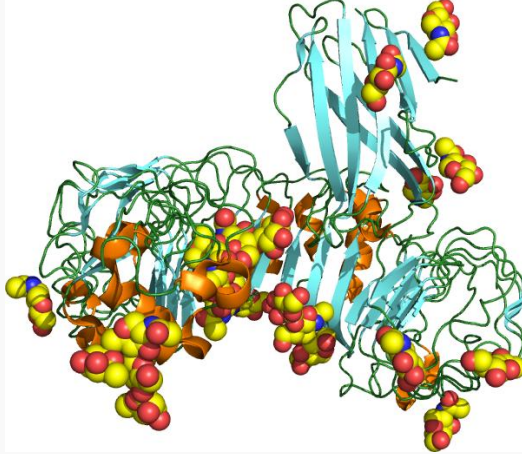
**MIM** 603030

**UniProt ID** [O00206](#)

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

<b>Chromosome Location</b>	9q33.1
<b>Pathway</b>	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
<b>Function</b>	lipopolysaccharide binding; lipopolysaccharide receptor activity; phosphatidylinositol 3-kinase binding; protein binding; receptor activity; membrane signaling receptor activity
<b>PDB rendering based on 2z64.</b>	

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA