

Recombinant Full Length Human TLR9 Protein

Cat. No. TLR9-573HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human TLR9 was expressed in Wheat Germ.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	1032 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 gene is preferentially expressed in immune cell rich tissues, such as spleen, lymph node, bone marrow and peripheral blood leukocytes. Studies in mice and human indicate that this receptor mediates cellular response to unmethylated CpG dinucleotides in bacterial DNA to mount an innate immune response.
Form	25 mM Tris-HCl of pH8.0 containing 2% glycerol.
Molecular Mass	113.52 kDa
AA Sequence	MGFCRSALHP LSLLVQAIML AMTLALGTLP AFLPCELQPH GLVNCNWLFL

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

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

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

KSVPHFSMAA PRGNVTSLSL SSNRIHHLHD SFAHLPSLR HLNLKWNCPP
 VGLSPMHFPC HMTIEPSTFL AVPTLEELNL SYNNIMTVPA LPKSLISLSL
 SHTNILMLDS ASLAGLHALR FLFMDGNCY Y KNPCRQALEV APGALLGLGN
 LTHLSLKYYN LTVVPRNLPS SLEYLLSYN RIVKLAPEDL ANLTALRVLD
 VGGNCRRCDH APNPCMECPR HFPQLHPDTF SHLSRLEGLV LKSSLSWLN
 ASWFRGLGNL RVLDSLSENFL YKCITKTAF QGLTQLRKLN LSFNYQKRVS
 FAHLSLAPSF GSLVALKELD MHGIFFRSLD ETTLRPLARL PMLQTLRLQM
 NFINQAQLGI FRAFPGLRYV DLSDNRISGA SELTATMGEA DGGEKVLQW
 GDLAPAPVDT PSSEDFRPNC STLNFTLDLS RNNLVTVQPE MFAQLSHLQC
 LRLSHNCISQ AVNGSQFLPL TGLQVLDLSH NKLDLYHEHS FTELPRLEAL
 DLSYNSQPFG MQGVGHNFSS VAHLRTLRLH SLAHNNIHSQ VSQQLCSTSL
 RALDFSGNAL GHMWAEGDLY LHFFQGLSGL IWLDSLQNRL HTLLPQTLRN
 LPKSLQVLRL RDNYLAFFKW WSLHFLPKLE VDLAGNQLK ALTNGSLPAG
 TRLRRLDVSC NSISFVAPGF FSKAKELREL NLSANALKTV DHSWFGPLAS
 ALQILDVSAN PLHCACGA AF MDFLLEVQAA VPGLPSRVKC GSPGQLQGLS
 IFAQDLRLCL DEALSWDCFA LSLLAVALGL GVPMLHHLCG WDLWYCFHLC
 LAWLPWRGRQ SGRDEDALPY DAFVVFDTQ SAVADWVYNE LRGQLEECRG
 RWALRLCLEE RDWLPGKTLF ENLWASVYGS RKTFLVLAHT DRVSGLLRAS
 FLLAQQLLE DRKDVVVLVI LSPDGRRSRY VRLRQRLCRQ SVLLWPHQPS
 GQRSEFAQLG MALTRDNHFF YNRNFCQGPT AE

Applications

Antibody Production; Functional Study: Recommended usage only, not validated yet;
 Compound Screening: Recommended usage only, not validated yet.

Storage

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

GENE INFORMATION

Gene Name

TLR9 toll-like receptor 9 [Homo sapiens]

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Official Symbol	TLR9
Synonyms	TLR9; toll-like receptor 9; CD289
Gene ID	54106
mRNA Refseq	NM_017442
Protein Refseq	NP_059138
MIM	605474
UniProt ID	Q9NR96

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