

Recombinant Rhesus Monkey TLR7 Protein, His-tagged

Cat. No. TLR7-01H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Rhesus Monkey TLR7 Protein with C-terminal His6 fusion tag was expressed in E. coli
Species	Macaca mulatta
Source	E.coli
ProteinLength	822
Description	Endosomal receptor that plays a key role in innate and adaptive immunity. Controls host immune response against pathogens through recognition of uridine-containing single strand RNAs (ssRNAs) of viral origin or guanosine analogs (PubMed:21402738). Upon binding to agonists, undergoes dimerization that brings TIR domains from the two molecules into direct contact, leading to the recruitment of TIR-containing downstream adapter MYD88 through homotypic interaction. In turn, the Myddosome signaling complex is formed involving IRAK4, IRAK1, TRAF6, TRAF3 leading to activation of downstream transcription factors NF-kappa-B and IRF7 to induce pro-inflammatory cytokines and interferons, respectively
Form	Buffered aqueous solution
Molecular Mass	94.5 kDa
AA Sequence	MARWFPKTLPCDVTLDVSKNHVIVDCTDKHLTEIPGGIPTNTTNLTLTINHIPDISPASF

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HRLVHLVEIDFRCNCVPIRLGSKSNMCPRLQIKPRSFSGLTLYLKSlyLDGNQlleIP
 QGLPPSLQLLSLEANNIFSIRKENLTLANIEILYLGQNCYyrNPCYVSYSIEKDAFLNL
 TKLKVLSLKDNNVTTVPTVLPSTLTelyLYNNMIAEIQEDDFNNLNQLQILDLSGNcPR
 CYNAPFPCTPCKNNSPLQIPVNAFDALTELKVLRLHSNSLQHVPPrWfKNINNLQEL
 DLSQNFLAKEIGDAKFLHFLPNLIQLDLSFNfelQVYRASMnLSQAFSSlKSLKILRIR
 GYVFkelKSFNLSPLHNLQNLEVLDLGTnfIKIANLSMfKQfKRLKVIDLSVnKISPSG
 DSSEVGfCSNARTSVESYEPQVLEQLYyFRYDKYARSCRfKNKEASFTSVNEscYK
 YGQTLDSLKNSIFFIKSSDFQHLSfLKCLNLSGNLISQTLNGSEfQPLAELRYLDfSNN
 RLDLLHSTAFEELRKLEVLDISSNSHYfQSEGITHMLNfTKNLKVLQKLMMNDNDISS
 STSRTMESESLRTLEFRGNHLDVLWRDGDnRYLQLfKNLLKLEELDISKNSLSfLPS
 GVFDGMPPNLKNLSLAKNGLKSfIWEKLRYLKNLETLDLSHNQLTTVPERLSNCSRS
 LKNLILKNNQIRSLTKYFLQDAFQLRYLDLSSNKIQMIQKTSFPENVLNNLKMLLLHHN
 RFLCTCDAVWFVWWVNHTeVTIPYLATDVTCVGPGAHKGQSVISLDLYTCELDLTNL
 EHHHHHH

Purity	95% by SDS-PAGE
Applications	Antigen for antibody production
Storage	Store it under sterile conditions at -20 to -80 °C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Concentration	0.1 mg/ml
Storage Buffer	Solution in PBS, 0.1% SKL, pH 7.4

GENE INFORMATION

Gene Name	TLR7
Official Symbol	TLR7

Synonyms	Tlr7; Toll-like receptor 7
Gene ID	574291
mRNA Refseq	NM_001130426.2
Protein Refseq	NP_001123898.1
UniProt ID	P58681

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