

## Active Recombinant Human TLR3 protein

Cat. No. TLR3-30112TH Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human TLR3 was expressed in HEK293.
<b>Species</b>	Human
<b>Source</b>	HEK293
<b>Form</b>	Sterile filtered through a 0.2 micron filter. Lyophilized from 20 mM Sodium Phosphate, pH 7.5.
<b>Bio-activity</b>	Determined by its ability to inhibit IL-8 secretion induced by Poly I:C in the TLR3 receptor-expressing HEK293 cells (HEK293 TLR3r). The ED50 for this effect is $\leq 30$ $\mu\text{g/ml}$ in the presence of 100 $\mu\text{g/ml}$ of Poly I:C.
<b>Molecular Mass</b>	77.4 kDa
<b>AA Sequence</b>	STTKCTVSH EVADCSHLK LTQVPDDL P TNITVLNLT HNQLRRLPA ANFTRYSQL TSLDVGFN T ISKLEPELC QKLPMLKVL NLQHNELSQ LSDKTF AFC TNLTELHLM SNSIQKIKN NPFVKQKNL ITLDLSHNG LSSTKLG TQ VQLENLQEL LLSNNKIQA LKSEELDIF ANSSLK KLE LSSNQIKEF SPGCFHAIG RLFGLFLNN VQLGPSLTE KLCLELANT SIRNLSLSN SQLSTTSNT TFLGLKWTN LTMLDLSYN NLNVVGNDS FAWLPQLEY FFLEYNNIQ HLFSHSLHG LFNVRYLNL KRSFTKQSI SLASLPKID DFSFQWLKC LEHLN MEDN DIPGIKSNM FTGLINLKY LSLSNSFTS LRTLNETF VSLAHSPLH ILNLTKNKI SKIESDAFS WLG HLEVLD LGLNEIGQE LTGQEW RGL ENIFEIYLS YNKYLQLTR NSFALVPSL QRLMLR RVA LKNVDSSPS PFQPLRNL T ILDLSNNNI ANINDDMLE GLEKLEILD LQHNNLARL WKHANPGGP IYFLKGLSH

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LHILNLESN GFDEIPVEV FKDLFELKI IDLGLNNLN TLPASVFNN QVSLKSLNL  
 QKNLITSVE KKVFGPAFR NLTELD MRF NPFDC TCES IAWFVNWIN ETH TNIP EL  
 SSHYLCNTP PHYHGFPVR LFD TSSCKD SAPP EL

**Endotoxin** Endotoxin level is <0.1 ng/ug of protein(1 EU/ug)

**Purity** Above 95% as determined by SDS-PAGE Analysis.

**Storage** Store at -20 centigrade

**Reconstitution** Centrifuge the vial prior to opening. Reconstitute in water to a concentration of 0.1-1.0 mg/ml. Do not vortex. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein(example 0.1% BSA) and store in working aliquots at -20 centigrade to - 80 centigrade.

## GENE INFORMATION

**Gene Name** [TLR3 toll-like receptor 3 \[ Homo sapiens \]](#)

**Official Symbol** [TLR3](#)

**Synonyms** TLR3; toll-like receptor 3; CD283; IIAE2;

**Gene ID** [7098](#)

**mRNA Refseq** [NM\\_003265](#)

**Protein Refseq** [NP\\_003256](#)

**MIM** [603029](#)

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<b>UniProt ID</b>	O15455
<b>Chromosome Location</b>	4q35
<b>Pathway</b>	Cytosolic sensors of pathogen-associated DNA, organism-specific biosystem; DAI mediated induction of type I IFNs, organism-specific biosystem; Hepatitis C, organism-specific biosystem; Hepatitis C, conserved biosystem; Herpes simplex infection, organism-specific biosystem; Herpes simplex infection, conserved biosystem; IRAK2 mediated activation of TAK1 complex upon TLR7/8 or 9 stimulation, organism-specific biosystem;
<b>Function</b>	double-stranded RNA binding; double-stranded RNA binding; receptor activity; transmembrane signaling receptor activity;

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