

Active Recombinant Human TLR3 protein

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

SPECIFICATION

Product Overview	Recombinant Human TLR3 was expressed in HEK293.
Species	Human
Source	HEK293
Form	Sterile filtered through a 0.2 micron filter. Lyophilized from 20 mM Sodium Phosphate, pH 7.5.
Bio-activity	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 ≤ 30 $\mu\text{g/ml}$ in the presence of 100 $\mu\text{g/ml}$ of Poly I:C.
Molecular Mass	77.4 kDa
AA Sequence	STTKCTVSH EVADCSHLK LTQVPDDL P TNITVLNLT HNQLRRLPA ANFTRYSQL TSLDVG FNT ISKLEPELC QKL PMLKVL NLQHNELSQ LSDKTF AFC TNLT EHL M SNSIQK IKN NPFVKQKNL ITLDLSHNG LSSTKLGTQ VQLENLQEL LLSNNKIQA LKSEELDIF ANSSLKKLE LSSNQIKEF SPGCFHAIG RLFGLFLNN VQLGPSLTE KLCLELANT SIRNLSLSN SQLSTTSNT TFLGLKWTN LTMLDLSYN NLNVVGND S FAWLPQLEY FFLEYNNIQ HLFSHSLHG LFNVRYLNL KRSFTKQSI SLASLPKID DFSQWLKC LEHLNMEDN DIPGIKSNM FTGLINLKY LSLSNSFTS LRTL TNETF VSLAHSPLH ILNLTKNKI SKIESDAFS WLGHLEVLD LGLNEIGQE LTGQEW RGL ENIFEIYLS YNKYLQLTR NSFALVPSL QRLMLRRVA LKNVDSSPS PFQPLRNLT ILDLSNNNI ANINDDMLE GLEKLEILD LQHNNLARL WKHANPGGP IYFLKGLSH

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LHILNLESN GFDEIPVEV FKDLFELKI IDLGLNNLN TLPASVFNN QVSLKSLNL
QKNLITSVE KKVFGPAFR NLTELD MRF NPF DCTCES IAWFVNWIN ETHTNIPEL
SSHLYCNTP PHYHGFPVR LFDTS SCKD SAPFEL

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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UniProt ID	O15455
Chromosome Location	4q35
Pathway	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;
Function	double-stranded RNA binding; double-stranded RNA binding; receptor activity; transmembrane signaling receptor activity;

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