

TLR3 active protein

TLR3 protein

CATALOG #
AAA75594

HOST
Human

PRODUCT SYNONYMS

TLR3; TLR3 protein; CD283 antigen protein; TLR-3 protein; TLR-3; Toll-like receptor 3; TLR 3 protein; TLR 3; TLR3 active protein

PRODUCT SPECIFICATIONS

Host	Human
Purity/Purification	>95% by SDS-PAGE gel and HPLC analysis
Form/Format	Lyophilized from 20mM Sodium Phosphate, pH 7.5. Centrifuge prior to opening. Reconstitute in water to 0.1-1.0mg/ml. Do not vortex.
Concentration	25ug, lyophilized (varies by lot)
Sequence	Region of TL R3 protein corresponds to amino acids STTKCT VSHEVADCSH LKLTQVPDDL PTNITVLNLT HNQLRRLPAA NFTRYSQLTS LDVGFTISK LEPELCQKLP MLKVLNLQHN ELSQLSDKTF AFCTNLTELH LMSNSIQKIK NNPVFKQKNL ITLDLSHNGL SSTKLGTQVQ LENLQELLS NNKIQALKSE ELDIFANSSL KKLELSSNQI KEFSPGCFHA IGRFLGFLN NVQLGPSLTE KLCLELANTS IRNLSLSNSQ LSTTSNTTFL GLKWTNLTML DLSYNNLNVV GNDSFAWLPQ LEYFFLEYNN IQHLFSHSLH GLFNRYLNL KRSFTKQSI LASLPKIDDF SFQWLKCLEH LNMEDNDIPG IKSNMFTGLI NLKYLSSNS FTSRLTLTNE TFVSLAHSPH HILNLTNKI SKIESDAFSW LGHLEVLDLG LNEIGQELTG QEWRGLENIF EYLSYNKYL QLTRNSFALV PSLQRLMLRR VALKNVDSSP SPFQPLRNLT ILDSNNNIA NINDDMLEGL EKLEIDLQH NNLARLWKHA NPGGPYFLK GLSHLHILNL ESNGFDEIPV EVFKDLFELK IIDLGLNNLN TLPASVFNNQ VSLKSLNLQK NLITSVEKKV FGPAFRNLTE LDMRFNPFDC TCESIAWVFN WINETHTNIP ELSSHYLCNT PPHYHGFPVR LFDTSCKDS APFEL.
Sequence Length	905
Grade	Recombinant Human
Biological Significance	TLR-3 is a single-pass type I receptor that binds to and signals the presence of microbial pathogens and double stranded RNA (dsRNA) viruses. Signaling through TLR-3 can promote the NF- κ B pathway to initiate innate and adaptive immune responses to bacterial and viral infections, as well as the p53 pathway to trigger apoptosis in cells infected with dsRNA viruses. TLR-3 belongs to a family of structurally-related toll-like receptors (TLRs) containing an N-terminal domain rich in leucine repeats and a C-terminal intracellular Toll/interleukin (IL)-1 (TIL) domain. TLR-3 is expressed primarily in dendritic cells of the placenta and pancreas where it can reside on both sides of the plasma membrane and in the endosomal compartment of the cells.
Bioactivity	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 approximately 30 ug/ml in the presence of 100 ug/ml of Poly I:C.
Source	HEK293 cells
Contaminants	Endotoxin level is <0.1ng/ug of protein
Biohazard	Use standard laboratory precautions when handling this material
Preparation and Storage	Ships ambient or refrigerated. Upon receipt store at 4 degree C short term, -20 degree C long term. Avoid repeat freeze-thaws.

ADDITIONAL INFORMATION

Related Product Information for TLR3 active protein	Purified recombinant Human TLR3 protein
Product Categories/Family for TLR3 active protein	Cytokines & Growth Factors

NCBI AND UNIPROT INFORMATION

NCBI GI #	38454316
NCBI GeneID	364594
NCBI Accession #	NP_942086.1
NCBI GenBank Nucleotide #	NM_198791.1
UniProt Accession #	Q7TNI8
Molecular Weight	77 kDa
NCBI Official Full Name	toll-like receptor 3
NCBI Official Synonym Full Names	toll-like receptor 3
NCBI Official Symbol	Tlr3
NCBI Protein Information	toll-like receptor 3
UniProt Protein Name	Toll-like receptor 3
UniProt Gene Name	Tlr3
UniProt Entry Name	Q7TNI8_RAT

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/human-active-protein/tlr3/75594>