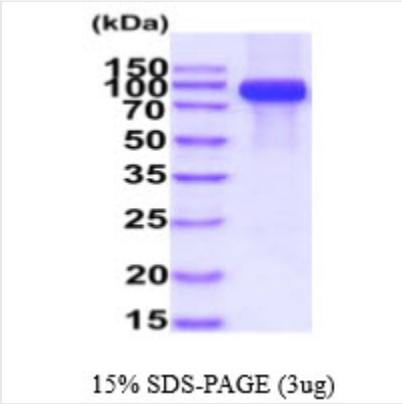
TLR3 Baculovirus Recombinant Protein

PRODUCT OVERVIEW

Product Name	TLR3, Recombinant Protein
Full Product Name	TLR3, 23-704aa, Human, His-tag, Baculovirus
Product Gene Name	TLR3 recombinant protein
Product Synonym Names	Toll-like receptor 3; TLR3; CD283; IIAE2
Sequence	SSTTKCTVSH EVADCSHLKL TQVPDDLPTN ITVLNLTHNQ LRRLPAANFT RYSQLTSLDV GFNTISKLEP ELCQKLPMLK VLNLQHNELS QLSDKTFAFC TNLTELHLMS NSIQKIKNNP FVKQKNLITL DLSHNGLSST KLGTQVQLEN LQELLLSNNK IQALKSEELD IFANSSLKKL ELSSNQIKEF SPGCFHAIGR LFGLFLNNVQ LGPSLTEKLC LELANTSIRN LSLSNSQLST TSNTTFLGLK WTNLTMLDLS YNNLNVVGND SFAWLPQLEY FFLEYNNIQH LFSHSLHGLF NVRYLNLKRS FTKQSISLAS LPKIDDFSFQ WLKCLEHLNM EDNDIPGIKS NMFTGLINLK YLSLSNSFTS LRTLTNETFV SLAHSPLHIL NLTKNKISKI ESDAFSWLGH LEVLDLGLNE IGQELTGQEW RGLENIFEIY LSYNKYLQLT RNSFALVPSL QRLMLRRVAL KNVDSSPSPF QPLRNLTILD LSNNNIANIN DDMLEGLEKL EILDLQHNNL ARLWKHANPG GPIYFLKGLS HLHILNLESN GFDEIPVEVF KDLFELKIID LGLNNLNTLP ASVFNNQVSL KSLNLQKNLI TSVEKKVFGP AFRNLTELDM RFNPFDCTCE SIAWFVNWIN ETHTNIPELS SHYLCNTPPH YHGFPVRLFD TSSCKDSAPF ELLEHHHHHH
Host	Baculovirus
Form/Format	Liquid. 20mM Tris-HCl Buffer (pH 8.0) containing 0.1M NaCl, 1mM DTT, 20% glycerol.
Purity/Purification	> 90% by SDS-PAGE
Concentration	0.5 mg/ml (determined by Absorbance at 280nm) (lot specific)
Preparation and Storage	Can be stored at 4 degree C short term (1-2 weeks). For long term storage, aliquot and store at -20 degree C or -70 degree C. Avoid repeated freezing and thawing cycles.
Molecular Weight	78.5kDa (690aa) 70-100kDa (SDS-PAGE under reducing conditions)
OMIM	U88879 mRNA
3D Structure	ModBase 3D Structure for O15455
Antigen Species	Human
Tag Information	His-tag
Endotoxin Level	< 1.0 EU per 1ug of protein (determined by LAL method)
Product Categories/Family for TLR3 recombinant protein	Immunology
Applications Tested/Suitable for TLR3 recombinant protein	SDS-PAGE
Related Product Information for TLR3 recombinant protein	TLR3, also known as toll-like receptor 3, is a member of the toll-like receptor family which plays a fundamental role in pathogen recognition and activation of innate immunity. It is innate immune receptors for sensing microbial molecules and damage-associated molecular patterns released from host cells. It recognizes dsRNA and activation of the receptor induces the activation of NF-kappaB and the production of type I interferons (IFNs). Its signaling activation is associated with ischemic preconditioning-induced protection against brain ischemia and attenuation of reactive astrogliosis. It is most abundantly expressed in placenta and pancreas, and is restricted to the dendritic subpopulation of the leukocytes. Recombinant human TLR3, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.
Product References and Citations for TLR3 recombinant protein	Alexopoulou L., et al. (2001) Nature. 413:732-738. Cole JE., et al. (2011) Proc Natl Acad Sci U S A. 108:2372-2377.

Other Notes	Small volumes of TLR3 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for TLR3 purchase	MBS206810 is a recombinant protein targeting TLR3. Also known as TLR3, 23-704aa, Human, His-tag, Baculovirus. Host: Baculovirus.



SDS-Page of TLR3 recombinant protein

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for TLR3. It may not necessarily be applicable to this product.

NCBI GI #	4507531
NCBI GeneID	7098
NCBI Accession #	NP_003256
UniProt Primary Accession #	O15455
UniProt Secondary Accession #	Q4VAL2; Q504W0; B2RAI7; B7Z7K0; E6Y0F0; E6Y0F1; E9PGH4
UniProt Related Accession #	O15455
GenBank Nucleotide #	NM_003265.2
NCBI Official Full Name	toll-like receptor 3
NCBI Official Synonym Full Names	toll like receptor 3
NCBI Official Symbol	TLR3
NCBI Official Synonym Symbols	CD283; IIAE2
UniProt Protein Name	Toll-like receptor 3
UniProt Synonym Protein Names	CD_antigen: CD283
Protein Family	Toll-like receptor
UniProt Gene Name	TLR3
NCBI Protein Information	toll-like receptor 3

NCBI Summary for TLR3	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 receptor is most abundantly expressed in placenta and pancreas, and is restricted to the dendritic subpopulation of the leukocytes. It recognizes dsRNA associated with viral infection, and induces the activation of NF-kappaB and the production of type I interferons. It may thus play a role in host defense against viruses. Use of alternative polyadenylation sites to generate different length transcripts has been noted for this gene. [provided by RefSeq, Jul 2008]
UniProt Comments for TLR3	Key component of innate and adaptive immunity. TLRs (Toll-like receptors) control host immune response against pathogens through recognition of molecular patterns specific to microorganisms. TLR3 is a nucleotide-sensing TLR which is activated by double-stranded RNA, a sign of viral infection. Acts via the adapter TRIF/TICAM1, leading to NF-kappa-B activation, IRF3 nuclear translocation, cytokine secretion and the inflammatory response.
Research Articles on TLR3	**1.** we report that autophagy is associated with apoptosis processes, involving LC3 and TRIF-colocation in human HCC cells. Regulation of autophagy and the TLR3-TRIF pathway may be effective in the treatment of liver cancer.
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