
Product Data Sheet

Product Name: TLR3 Human
 Cat. No.: GP24846
 Batch No.: 1

Product Data

Purity	>98%	Source	Sf9, Baculovirus cells.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Toll Like Receptor 3; Toll-Like Receptor 3; CD283 Antigen; CD283; IIAE2; Toll-like receptor 3.		
Amino Acid Sequence	<p>SSTTKCTVSH EVADCSHLKL TQVPDDLPTN ITVLNLTHNQ LRRLPAANFT RYSQLTSLDV GFNTISKLEP ELCQKLPMLK VLNLQHNELS QLSDKTFAFC TNLTELHLMS NSIQKIKNNP FVKQKNLITL DLSHNGLSST KLGTVQVLEN LQELLSNNK IQALKSEELD IFANSSLKKL ELSSNQIKEF SPGCFHAIGR LFGFLNINVQ LGPSLTEKLC LELANTSIRN LSLSNSQLST TSNTTFLGLK WTNLTMLDLS YNNLNVVGND SFAWLPQLEY FFLEYNNIQH LFSHSLHGLF NVRYLNLKRS FTKQISLAS LPKIDDFSQ WLKCLEHLNM EDNDIPGIKS NMFTGLINLK YLSLSNSFTS LRTLNETFV SLAHSPLHIL NLTKNKISKI ESDAFSWLGH LEVLDLGLNE IGQELTGQEW RLENIFEIY LSYNKYLQLT RNSFALVPSL QRLMLRRVAL KNVDSSPSPF QPLRNLTILD LSNNNIANIN DDMLEGLEKL EILDQLHNNL ARLWKHANPG GPIYFLKGLS HLHILNLESN GFDEIPVEVF KDLFELIID LGLNNLNTLP ASVFNNQVSL KSLNLQKNLI TSVEKKVFGP AFRNLTELDM RFPFDCTCE SIAWFVNWIN ETHTNPELS SHYLCNTPPH YHGFPVRLFD TSSCKDSAPF ELLEHHHHHH.</p>		
Formulation	TLR3 protein solution (0.5 mg/ml) contains 20% glycerol, 20mM Tris-HCl Buffer (pH 8.0), 0.1M NaCl & 1mM DTT.		

Introduction

TLR3 (Toll-like receptor 3) belongs to the toll-like receptor family which takes an essential part in pathogen recognition as well as activation of innate immunity. TLR3 has innate immune receptors for sensing microbial molecules in addition to damage-associated molecular patterns released from host cells. TLR3 recognizes dsRNA and activation of the receptor which induces the activation of NF-kappaB and the production

Caution: Product has not been fully validated for medical applications. For research use only.

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of type I interferons. TLR3 signaling activation is related with ischemic preconditioning-induced protection against brain ischemia and attenuation of reactive astrogliosis. TLR3 is most plentifully expressed in the placenta & pancreas, and is limited to the dendritic subpopulation of the leukocytes.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

TLR3 produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 690 amino acids (23-704 a.a.) and having a molecular mass of 78.5kDa. (Molecular size on SDS-PAGE will appear at approximately 70-100kDa). TLR3 is expressed with an 8 amino acid His tag at C-Terminus and purified by proprietary chromatographic techniques.

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