Recombinant human TLR3 protein

Catalog Number: ATGP3761

PRODUCT INFORMATION

Expression system
Baculovirus

Domain
23-704aa

UniProt No.
O15455

NCBI Accession No.
NP_003256

Alternative Names
Toll-like receptor 3, TLR3, CD283, IIAE2

PRODUCT SPECIFICATION

Molecular Weight
78.5 kDa (690aa)

Concentration
0.5mg/ml (determined by absorbance at 280nm)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.1M NaCl, 1mM DTT, 20% glycerol

Purity
> 90% by SDS-PAGE

Endotoxin level
< 1 EU per 1ug of protein (determined by LAL method)

Tag
His-Tag

Application
SDS-PAGE

Storage Condition
Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description
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

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(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.

Amino acid Sequence

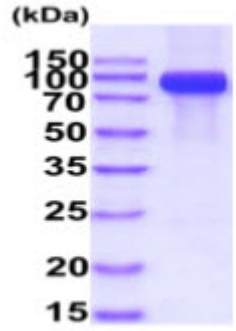
SSTTKCTVSH EVADCSHLKL TQVPDDLPTN ITVLNLTHNQ LRRLPAANFT RYSQLTSLDV GFNTISKLEP ELCQKLPMLK VLNLQHNELS QLSDKTFAFC TNLTELHLMS NSIQKIKNNP FVKQKNLITL DLSHNGLSST KLGTQVQLEN LQELLLSNNK IQALKSEELD IFANSSLKKL ELSSNQIKEF SPGCFHAIGR LFGLFLNNVQ LGPSLTEKLC LELANTSIRN LSLSNSQLST TSNTTFLGLK WTNLTMLDLS YNNLNVVGND SFAWLPQLEY 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

General References

Alexopoulou L., et al. (2001) Nature. 413:732-738.
Cole JE., et al. (2011) Proc Natl Acad Sci U S A. 108:2372-2377.

DATA

SDS-PAGE



15% SDS-PAGE (3ug)

3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.