TLR-3 Human HEK293 cells

Product Data Sheet

Type: Recombinant
Source: HEK293 cells
Species: Human
Other names: Toll-like receptor 3; CD283 antigen

Cat. No.:

RBG10324005	(5 µg)
RBG10324025	(25 µg)
RBG10324100	(100 µg)

Description

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-?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. Recombinant Human TLR-3 is 77.4 kDa glycoprotein containing 681 residues which comprise the TLR-3 extracellular domain.

Research topic

Apoptosis

Amino Acid Sequence

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STTKCTVSHE VADCSHLKLT QVPDDLPTNI TVLNLTHNQL RRLPAANFTR YSQLTSLDVG FNTISKLEPE LCQKLPMLKV
LNLQHNELSQ LSDKTFAFCT NLTELHLMSN SIQKIKNNPF VKQKNLITLD LSHNGLSSTK LGTQVQLENL QELLLSNNKI
QALKSEELDI FANSSLKKLE LSSNQIKEFS PGCFHAIGRL FGLFLNNVQL GPSLTEKLCL ELANTSIRNL SLSNSQLSTT
SNTTFLGLKW TNLTMLDLSY NNLNVVGNDS FAWLPQLEYF FLEYNNIQHL FSHSLHGLFN VRYLNLKRSF TKQSISLASL
PKIDDFSFQW LKCLEHLNME DNDIPGIKSN MFTGLINLKY LSLSNSFTSL RTLTNETFVS LAHSPLHILN LTKNKISKIE
SDAFSWLGHL EVLDLGLNEI GQELTGQEWR GLENIFEIYL SYNKYLQLTR NSFALVPSLQ RLMLRRVALK NVDSSPSPFQ
PLRNLTILDL SNNNIANIND DMLEGLEKLE ILDLQHNNLA RLWKHANPGG PIYFLKGLSH LHILNLESNG FDEIPVEVFK
DLFELKIIDL GLNNLNTLPA SVFNNQVSLK SLNLQKNLIT SVEKKVFGPA FRNLTELDMR FNPFDCTCES IAWFVNWINE
THTNIPELSS HYLCNTPPHY HGFPVRLFDT SSCKDSAPFE L
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Source

HEK293 cells

Purity

95%

Biological 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 ED_{50} for this effect is 30 µg/ml in the presence of 100 µg/ml of Poly I:C.

Endotoxin

Endotoxin level is <0.1 ng/µg of protein (<1EU/µg).

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°C to -80°C.

Storage, Stability/Shelf Life

-20°C

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