

## Product datasheet for **TP723450**

### TLR3 (NM\_003265) Human Recombinant Protein

#### Product data:

<b>Product Type:</b>	Recombinant Proteins
<b>Description:</b>	Purified recombinant protein of Human toll-like receptor 3 (TLR3).
<b>Species:</b>	Human
<b>Expression Host:</b>	HEK293
<b>Expression cDNA Clone or AA Sequence:</b>	STTKCTVSHE VADCShLkLT QVPDDLPTNI TVLNLTHNQL RRLPAANFTR YSQTSLDVG FNTISKLEPE LCQKLPMLKV LNLQHNELSQ LSDKTFACT NLTELHLSN SIQKIKNNPF VKQKNLITLD LSHNGLSSTK LGTQVQLENL QELLSNNKI QALKSEELDI FANSSLKLE LSSNQIKEFS PGCFAIGRL FGLFLNNVQL GPSLTEKLCL ELANTSIRNL SLSNSQLSTT SNTTFLGLKW TNLTMLDLSY NNLNVVGND S FAWLPQLEYF FLEYNNIQHL FSHSLHGLFN VRYLNLKR SF TKQSISLASL PKIDDFSFQW LKCLEHLNME DNDIPGKSN MFTGLINLKY LSLSNSFTSL RLTNETFVS LAHSPLHILN LTKNKISKIE SDAFSWLGHL EVDLGLNEI GQELTGQEW R GLENIFEIYL SYNKYLQLTR NSFALVPSLQ RLMLRRVALK NVDSSPSPFQ PLRNLTIDL SNNNIANIND DMLEGLEKLE ILDLQHNNLA RLWKHANPGG PIYFLKGLSH LHILNLESNG FDEIPVEVFK DLFELKIIDL GLNNLNTLPA SVFNNQVSLK SLNLQKNLIT SVEKKVFGPA FRNLTELMR FNPFDCTCES IAWFVNWINE THTNIPELSS HYLCNTPPHY HGFPVRLFDT SSCKDSAPFE L
<b>Tag:</b>	Tag Free
<b>Predicted MW:</b>	77.4 kDa
<b>Concentration:</b>	lot specific
<b>Purity:</b>	>95% as determined by SDS-PAGE and Coomassie blue staining
<b>Buffer:</b>	Lyophilized from a 0.2 μM filtered solution of 20mM phosphate buffer, 100mM NaCl, pH 7.2
<b>Bioactivity:</b>	Determined by its ability to inhibit IL-8 secretion induced by Poly I:C in the TLR3 receptor-expressing HEK293 cells (HEK293 TLR3r). ED50 for this effect is less than or equal to 30 ug/mL in the presence of 100 ug/mL of Poly I:C.
<b>Endotoxin:</b>	Endotoxin level is < 0.1 ng/μg of protein (< 1 EU/μg)
<b>Storage:</b>	Store at -80°C.
<b>Stability:</b>	Stable for at least 6 months from date of receipt under proper storage and handling conditions.
<b>RefSeq:</b>	<a href="#">NP_003256</a>
<b>Locus ID:</b>	7098



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UniProt ID: [O15455](#)

RefSeq Size: 3057

Cytogenetics: 4q35.1

RefSeq ORF: 2712

Synonyms: CD283; IIAE2

**Summary:** 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]

**Protein Families:** Druggable Genome, Transmembrane

**Protein Pathways:** Toll-like receptor signaling pathway