

Recombinant Human TLR8 protein, His-tagged

Cat. No. TLR8-930H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human TLR8(aa 27-827) fused with His-tag was expressed in Yeast.
Species	Human
Source	Yeast
ProteinLength	27-827 a.a.
Description	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 gene is predominantly expressed in lung and peripheral blood leukocytes, and lies in close proximity to another family member, TLR7, on chromosome X.
Form	20 mM Tris, pH 8.0, 500 mM NaCl, 50% glycerol
Molecular Mass	93.4 kD
AA Sequence	EENFSRSYPC DEKKQND SVI AECSNRRLQE VPQTVGKYVTELDLSDNFIT HITNESFQGL QNLTKINLNH NPNVQHQNPNQISNGLNI TDGAFLNLKN LRELLLEDNQ LPQIPSGLPESLTELSQLN NIYNITKEGI SRLINLKNLY

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LAWNCYFNKVCEKTNIEDGV FETLTNLELL SLSFNLSHV
 PPKLPSSLRKLFLSNTQIKY ISEEDFKGLI NLTLDDLGN
 CPRCFNAPFPCVPCDGGASI NIDRFAFQNL TQLRYLNLSS
 TSLRKINAAWFKNMPHLKVL DLEFNVLVGE IASGAFTML
 PRLEILDLSFNLIKGSYPQH INISRNFSKL LSLRALHLRG
 YVFQELREDDFQPLMQLPNL STINLGINFI KQIDFKLFQN
 FSNLEIIYLSENRISPLVKD TRQSYANSSS FQRHIRKRRS
 TDFEFDPHSNFYHFTRPLIK PQCAAAYGKAL DLSLNSIFFI
 GPNQFENLPDIACLNLSANS NAQVLSGTEF SAIPHVKYLD
 LTNNRLDFDNASALTELSL EVLDLSYNH YFRIAGVTHH
 LEFIQNFTNLKVLNLSHNNI YTLTDKYNLE SKSLVELVFS
 GNRLDILWNDDNRYISIFK GLKNLTRLDL SLNRLKHIPN
 EAFLNLPASLTEHINDNML KFFNWTLLQQ FPRLELLDLR
 GNKLLFLTDSLSDFTSSLRT LLLSHNRISH LPSGFLSEVS
 SLKHLDLSSNLLKTINKSAL ETKTTTKLSM LELHGNPFEC
 TCDIGDFRRWMDEHLNVKIP RLVDVICASP GDQRGKSIVS LELTTCVSDVT

Storage Long term: -80 centigrade; Short term: -20 centigrade. Avoid freeze-thaw cycles.

GENE INFORMATION

Gene Name	TLR8 toll-like receptor 8 [Homo sapiens]
Official Symbol	TLR8
Synonyms	TLR8; toll-like receptor 8; CD288; MGC119599; MGC119600;
Gene ID	51311
mRNA Refseq	NM_138636

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Protein Refseq	NP_619542
MIM	300366
UniProt ID	Q9NR97
Chromosome Location	Xp22
Pathway	Immune System, organism-specific biosystem; Innate Immune System, organism-specific biosystem; MyD88 dependent cascade initiated on endosome, organism-specific biosystem; TRAF6 mediated IRF7 activation in TLR7/8 or 9 signaling, organism-specific biosystem; TRAF6 mediated induction of NFkB and MAP kinases upon TLR7/8 or 9 activation, organism-specific biosystem; Toll Like Receptor 7/8 (TLR7/8) Cascade, organism-specific biosystem; Toll Like Receptor 9 (TLR9) Cascade, organism-specific biosystem;
Function	DNA binding; RNA binding; double-stranded RNA binding; receptor activity; single-stranded RNA binding;