

Recombinant Human TLR8 protein, His-tagged

Cat. No. TLR8-902H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human TLR8(Leu844~Lys1039) fused with His tag at N-terminal was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Leu844~Lys1039
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	PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Molecular Mass	29.0kDa
Endotoxin	<1.0EU per 1g (determined by the LAL method)

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Purity	> 95%
Applications	SDS-PAGE; WB; ELISA; IP
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Reconstitution	Reconstitute in PBS or others.

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
Protein Refseq	NP_619542
MIM	300366
UniProt ID	Q9NR97

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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;