

Recombinant Human TLR7 protein, His-tagged

Cat. No. TLR7-903H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human TLR7(Pro887~Asp1036) fused with His tag at N-terminal was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Pro887~Asp1036
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, placenta, and spleen, and lies in close proximity to another family member, TLR8, on chromosome X.
Form	PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300
Molecular Mass	Predicted Molecular Mass: 21.4kDa
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	TLR7 toll-like receptor 7 [Homo sapiens]
Official Symbol	TLR7
Synonyms	TLR7; toll-like receptor 7;
Gene ID	51284
mRNA Refseq	NM_016562
Protein Refseq	NP_057646
MIM	300365
UniProt ID	Q9NYK1

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Chromosome Location	Xp22.3
Pathway	Immune System, organism-specific biosystem; Influenza A, organism-specific biosystem; Influenza A, conserved biosystem; Innate Immune System, organism-specific biosystem; Measles, organism-specific biosystem; Measles, conserved biosystem; MyD88 dependent cascade initiated on endosome, organism-specific biosystem;
Function	double-stranded RNA binding; drug binding; receptor activity; siRNA binding; single-stranded RNA binding;

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