

Recombinant Human TLR5 protein, His-tagged

Cat. No. TLR5-2076H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human TLR5 aa. (Leu303~Leu514 (Accession # O60602)) fused with N-terminal His tag was produced in E. coli cells.
Species	Human
Source	E.coli
ProteinLength	Leu303~Leu514
Description	This gene encodes a member of the toll-like receptor (TLR) family, which plays a fundamental role in pathogen recognition and activation of innate immune responses. These receptors recognize distinct pathogen-associated molecular patterns that are expressed on infectious agents. The protein encoded by this gene recognizes bacterial flagellin, the principal component of bacterial flagella and a virulence factor. The activation of this receptor mobilizes the nuclear factor NF-kappaB, which in turn activates a host of inflammatory-related target genes. Mutations in this gene have been associated with both resistance and susceptibility to systemic lupus erythematosus, and susceptibility to Legionnaire disease.
Form	Freeze-dried powder
Molecular Mass	30 kDa as determined by SDS-PAGE reducing conditions.
Endotoxin	<1.0EU per 1g (determined by the LAL method)

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Purity	>95%
Characteristic	The isoelectric point is 5.4.
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°C 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°C for one month. Aliquot and store at -80°C for 12 months.
Storage buffer	Supplied as liquid form in Phosphate buffered saline(PBS), pH 7.4.
Reconstitution	Reconstitute in sterile PBS, pH7.2-pH7.4.

GENE INFORMATION

Gene Name	TLR5 toll like receptor 5 [Homo sapiens (human)]
Official Symbol	TLR5
Synonyms	SLE1; TIL3; SLEB1; MELIOS; systemic lupus erythematosus susceptibility 1; toll/interleukin-1 receptor-like protein 3; toll-like receptor 5
Gene ID	7100
mRNA Refseq	NM_003268.5

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Protein Refseq	NP_003259.2
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UniProt ID	O60602
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