Recombinant Human TLR2 protein, His-tagged

Cat. No. TLR2-744H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human TLR2 aa. (Pro47~Gly245 (Accession # O60603)) fused with N-terminal His tag was produced in E. coli cells.
Species	Human
Source	E.coli
ProteinLength	Pro47~Gly245
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. This protein is a cell-surface protein that can form heterodimers with other TLR family members to recognize conserved molecules derived from microorganisms known as pathogen-associated molecular patterns (PAMPs). Activation of TLRs by PAMPs leads to an up-regulation of signaling pathways to modulate the host's inflammatory response. This gene is also thought to promote apoptosis in response to bacterial lipoproteins. This gene has been implicated in the pathogenesis of several autoimmune diseases. Alternative splicing results in multiple transcript variants.
Form	Freeze-dried powder
Molecular Mass	23 kDa as determined by SDS-PAGE reducing conditions.

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Endotoxin	<1.0EU per 1μg (determined by the LAL method)
Purity	>95%
Characteristic	The isoelectric point is 5.3.
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	TLR2 toll like receptor 2 [Homo sapiens (human)]
Official Symbol	TLR2
Synonyms	TIL4; CD282; toll/interleukin-1 receptor-like protein 4; toll-like receptor 2
Gene ID	7097
mRNA Refseq	NM_001318787.1

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Protein Refseq	NP_001305716.1
UniProt ID	O60603

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