Recombinant Mouse Tlr4 protein, His & S-tagged

Cat. No. Tlr4-7619M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Tlr4 aa. (Asn26~Glu269 (Accession # Q9QUK6)) fused with N-terminal His & S tag was produced in E. coli cells.
Species	Mouse
Source	E.coli
ProteinLength	Asn26~Glu269
Description	This gene belongs to the evolutionarily-conserved Toll-like receptor family, whose members are type-1 transmembrane proteins that are involved in innate immunity. Toll-like receptors are characterized by an extracellular leucine-rich repeat domain that functions in ligand recognition and an intracellular toll/interleukin-1 receptor-like domain that is crucial for signal transduction. The receptor encoded by this gene mediates the innate immune response to bacterial lipopolysaccharide, a major component of the outer membrane of Gram-negative bacteria, through synthesis of pro-inflammatory cytokines and chemokines. In addition, this protein can recognize other pathogens from Gram-negative and Gram-positive bacteria as well as viral components. Mice deficient in this gene display a number of immune response-related phenotypes including hyporesponsiveness to bacterial lipopolysaccharide and increased levels of respiratory syncytial virus compared to controls.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 33.3kDa

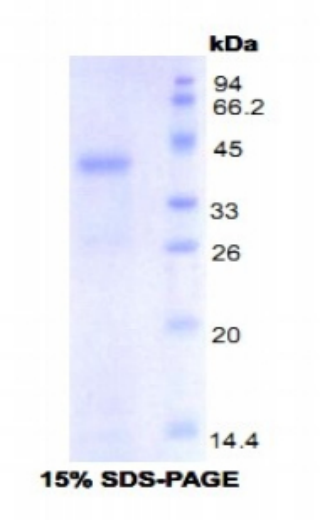
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Endotoxin	<1.0EU per 1μg (determined by the LAL method)
Purity	>95%
Characteristic	The isoelectric point is 5.7.
Applications	SDS-PAGE; WB; ELISA; IP.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated 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 lyophilized form in PBS, pH7.4, containing 5% trehalose, 0.01% sarcosyl.
Reconstitution	Reconstitute in sterile PBS, pH7.2-pH7.4.

GENE INFORMATION

Gene Name	Tlr4 toll-like receptor 4 [Mus musculus (house mouse)]
Official Symbol	Tlr4
Synonyms	Lps; Ly87; Ran/M1; Rasl2-8; Toll like receptor 4; lipopolysaccharide response; toll-like receptor 4
Gene ID	21898

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mRNA Refseq	NM_021297.3
Protein Refseq	NP_067272.1
UniProt ID	Q9QUK6
SDS-PAGE	

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