

Recombinant Mouse Tlr7 Protein, His-tagged

Cat. No. Tlr7-836M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Tlr7 Protein (Asn275-Phe444) with an N-terminal Met and a C-terminal 6-His tag was expressed in E.coli.
Species	Mouse
Source	E.coli
ProteinLength	275-444 a.a.
Description	Endosomal receptor that plays a key role in innate and adaptive immunity. Controls host immune response against pathogens through recognition of uridine-containing single strand RNAs (ssRNAs) of viral origin or guanosine analogs. Upon binding to agonists, undergoes dimerization that brings TIR domains from the two molecules into direct contact, leading to the recruitment of TIR-containing downstream adapter MYD88 through homotypic interaction. In turn, the Myddosome signaling complex is formed involving IRAK4, IRAK1, TRAF6, TRAF3 leading to activation of downstream transcription factors NF-kappa-B and IRF7 to induce proinflammatory cytokines and interferons, respectively.
Molecular Mass	21 kDa
N-terminal Sequence Analysis	Met
Endotoxin	< 1.0 EU/μg of the protein by the LAL method.

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Purity	> 95%, by SDS-PAGE under reducing conditions and visualized by silver stain.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, -20 to -70 centigrade under sterile conditions after reconstitution.
Storage Buffer	Lyophilized from a 0.2 µm filtered solution in HCl.
Reconstitution	Reconstitute at 200 µg/mL in 10 mM HCl.
Shipping	The product is shipped at ambient temperature.

GENE INFORMATION

Gene Name	Tlr7 toll-like receptor 7 [<i>Mus musculus</i> (house mouse)]
Official Symbol	Tlr7
Synonyms	Tlr7; toll-like receptor 7; toll-like receptor 7; Toll like receptor 7
Gene ID	170743
mRNA Refseq	NM_133211
Protein Refseq	NP_573474
UniProt ID	P58681

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