

Active Recombinant Human TLR1, Fc-tagged

Cat. No. TLR1-686H Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant Human TLR1(Ser22 - Asn578) was expressed in Mouse NSO Cells.

Species Human

Source Mammalian Cells

ProteinLength 22-578 a.a.

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 ubiquitously expressed, and at higher levels than other TLR genes. Different length transcripts presumably resulting from use of alternative polyadenylation site, and/or from alternative splicing, have been noted for this gene.

Predicted N Terminal Ser22

Form Lyophilized from a 0.2 µ filtered solution in PBS.

Bio-activity Measured by its ability to bind biotinylated Pam3CysSerLys4 (PAM3CSK4).

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Molecular Mass	Predicted Molecular Mass:89.9 kDaSDS-PAGE:95-105 kDa, reducing conditions
Purity	>90%, by SDS-PAGE under reducing conditions and visualized by silver stain.
Storage	Avoid repeated freeze-thaw cycles.12 months from date of receipt, -20 to -70 °C as supplied.1 month, 2 to 8 °C under sterile conditions after reconstitution.3 months, -20 to -70 °C under sterile conditions after reconstitution.
Reconstitution	Reconstitute at 100 g/mL in PBS.

GENE INFORMATION

Gene Name	TLR1 toll-like receptor 1 [Homo sapiens (human)]
Official Symbol	TLR1
Synonyms	TLR1; TIL; CD281; rsc786; TIL. LPRS5; toll-like receptor 1; toll-like receptor 1; toll/interleukin-1 receptor-like protein
Gene ID	7096
mRNA Refseq	NM_003263
Protein Refseq	NP_003254
MIM	601194
UniProt ID	Q15399
Chromosome Location	4p14

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Pathway	Activated TLR4 signalling; Immune System; MyD88:Mal cascade initiated on plasma membrane
Function	protein heterodimerization activity; receptor activity; transmembrane signaling receptor activity

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