

Recombinant Human TLR4 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. TLR4-2447H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	TLR4 MS Standard C13 and N15-labeled recombinant protein (NP_612564) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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 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 receptor has been implicated in signal transduction events induced by lipopolysaccharide (LPS) found in most gram-negative bacteria. Mutations in this gene have been associated with differences in LPS responsiveness. Multiple transcript variants encoding different isoforms have been found for this gene.
Molecular Mass	93.2 kDa
AA Sequence	MSASRLAGTLIPAMAFSLSCVRPESWEPCVEVVPNITYQCMELNFYKIPDNLPFSTKN LDLSFNPLRHLGSYSFFSFPELQVLDLSRCEIQTIEDGAYQSLSHLSTLILTGNPIQSL

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ALGAFSGLSSLQKLVAVETNLASLENFPIGHLKTLKELNVAHNLIQSFKLPEYFSNLTN
 LEHLDLSSNKIQSIYCTDLRVLHQMPLLNLSLDLSLNPMMFIQPGAFKEIRLHKLTLRN
 NFDSLNVMTKCIQGLAGLEVHRLVLGEFRNEGNLEKFDKSALEGLCNLTIEEFRLAYL
 DYYLDDIIDLFNCLTNVSSFSLVSVTIERVKDFSYNFGWQHLELVNCKFGQFPTLKLK
 SLKRLTFTSNKGGNAFSEVDLPSLEFLDLSRNGLSFKGCCSQSDFGTTSLKYLDLSF
 NGVITMSSNFLGLEQLEHLDLDFQHSNLKQMSEFSVFLSLRNLIYLDISHTHTRVAFNGIF
 NGLSSLEVLKMAGNSFQENFLPDIFTELRLNTFLDLSQCQLEQLSPTAFNSLSSLQVL
 NMSHNNFFSLDTPYKCLNSLQVLDYSLNHIMTSKKQELQHFPSSLAFLNLTQNDFA
 CTCEHQSFLQWIKDQRQLLVEVERMECATPSDKQGMPVLSLNTCQMKNKTIIGVSVL
 SVLVVSVVAVLVYKFYFHLMLLAGCIKYGRGENIYDAFVIYSSQDEDWVRNELVKNLE
 EGVPPFQLCLHYRDFIPGVAIAANIIHEGFHKSARKVIVVVSQHFIQSRWCIFEYEIAQT
 WQFLSSRAGIIFIVLQKVEKTLLRQQVELYRLLSRNTYLEWEDSVLGRHIFWRRLRKA
 LLDGKSWNPEGTVGTGCNWQEATSITRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name TLR4 toll-like receptor 4 [[Homo sapiens \(human\)](#)]

Official Symbol [TLR4](#)

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Synonyms	TLR4; toll-like receptor 4; CD284; hToll; TLR 4; homolog of Drosophila toll; TOLL; TLR-4; ARMD10;
Gene ID	7099
mRNA Refseq	NM_138554
Protein Refseq	NP_612564
MIM	603030
UniProt ID	O00206
SDS-PAGE	