

Recombinant Human TLR2 Protein, His-tagged

Cat. No. TLR2-140H **Lot. No.** (See product label)

SPECIFICATION

Product Overview Recombinant Human TLR2 Protein with His tag was expressed in E. coli.

Species Human

Source E.coli

Description

Members of the Toll-like receptor (TLR) family, named for the closely related Toll receptor in Drosophila, play a pivotal role in innate immune responses. TLRs recognize conserved motifs found in various pathogens and mediate defense responses. Triggering of the TLR pathway leads to the activation of NF- κ B and subsequent regulation of immune and inflammatory genes. The TLRs and members of the IL-1 receptor family share a conserved stretch of approximately 200 amino acids known as the Toll/Interleukin-1 receptor (TIR) domain. Upon activation, TLRs associate with a number of cytoplasmic adaptor proteins containing TIR domains, including myeloid differentiation factor 88 (MyD88), MyD88-adaptor-like/TIR-associated protein (MAL/TIRAP), Toll-receptor-associated activator of interferon (TRIF), and Toll-receptor-associated molecule (TRAM). This association leads to the recruitment and activation of IRAK1 and IRAK4, which form a complex with TRAF6 to activate TAK1 and IKK. Activation of IKK leads to the degradation of I κ B, which normally maintains NF- κ B in an inactive state by sequestering it in the cytoplasm. TLR2 is expressed on the surface of monocytes and macrophages and can heterodimerize with TLR1 or TLR6, enabling responses to a variety of pathogen-associated molecular patterns including lipopeptides and peptidoglycan.

Molecular Mass ~68 kDa

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AA Sequence

ESSNQASLSCDRNGICKGSSGSLNSIPSGLTEAVKSLDLSNNRITYISNSDLQRCVNL
 QALVLTNGINTIEEDSFSSLGSLEHLDSLNYLNLSSSWFKPLSSLTFLNLLGNPYK
 TLGETSLFSLTKLQILRVGNMDTFTKIQRKDFAGLTFLEELEIDASDLQSYEPKSLKS
 IQNVSHLILHMKQHILLEIFVDVTSSVECLELRDLDLDTFHSELSTGETNSLIKKFTF
 RNVKITDESLFQVMKLLNQISGLLELEFDDCTLNGVGNFRASDNDRVIDPGKVETLTI
 RRLHIPRFYLFYDLSTLYSLTERVKRITVENSKVFLVPCLLSQHLKSLEYLDLSENLMV
 EEYLKNSACEDAWPSLQTLILRQNHLSLEKTGETLLTLKNLTNIDISKNSFHSMPET
 CQWPEKMKYLNLSSTRIHSVTGCIPKTEILDVSNLNLNLFSLNLPQLKELYISRNKLM
 TLPDASLLPMLLVLKISRNAITTFKSKEQLDSFHTLKTLEAGGNNFICSCEFLSFTQEQQ
 ALAKVLIDWPANYLCDSPSHVRGQQVQDVRLSVSECHRT

Purity Transferred into competent cells and the supernatant was purified by NI column affinity chromatography and the purity is > 85% (by SDS-PAGE).

Notes For research use only, not for use in diagnostic procedure.

Storage Store at 4 centigrade short term. Aliquot and store at -20 centigrade long term. Avoid freeze-thaw cycles.

Storage Buffer PBS, 4M Urea, pH7.4

GENE INFORMATION

Gene Name [TLR2 toll-like receptor 2 \[Homo sapiens \(human\) \]](#)

Official Symbol [TLR2](#)

Synonyms TLR2; toll-like receptor 2; CD282; TIL4; toll/interleukin 1 receptor-like 4; toll/interleukin-1 receptor-like protein 4;

Gene ID [7097](#)

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mRNA Refseq [NM_003264](#)

Protein Refseq [NP_003255](#)

MIM [603028](#)

UniProt ID [O60603](#)

SDS-PAGE



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