

## Recombinant Human TLR4 protein, His & S-tagged

Cat. No. TLR4-7617H Lot. No. (See product label)

### SPECIFICATION

|                         |   |
|-------------------------|---|
| <b>Product Overview</b> | Recombinant Human TLR4 aa. (Phe326~Ile634 (Accession # O00206)) fused with N-terminal His & S tag was produced in E. coli cells.  |
| <b>Species</b>          | Human   |
| <b>Source</b>           | E.coli  |
| <b>ProteinLength</b>    | Phe326~Ile634   |
| <b>Description</b>      | <p>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.</p> |
| <b>Form</b>             | Freeze-dried powder   |
| <b>Molecular Mass</b>   | 41 kDa as determined by SDS-PAGE reducing conditions.   |

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|                       |   |
|-----------------------|---|
| <b>Endotoxin</b>      | <1.0EU per 1g (determined by the LAL method)  |
| <b>Purity</b>         | >95%  |
| <b>Characteristic</b> | The isoelectric point is 5.8.   |
| <b>Applications</b>   | SDS-PAGE; WB; ELISA; IP.  |
| <b>Stability</b>      | 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. |
| <b>Storage</b>        | Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.  |
| <b>Storage buffer</b> | Supplied as liquid form in Phosphate buffered saline(PBS), pH 7.4.  |
| <b>Reconstitution</b> | Reconstitute in sterile PBS, pH7.2-pH7.4.   |

## GENE INFORMATION

|                        |   |
|------------------------|---|
| <b>Gene Name</b>       | TLR4 toll like receptor 4 [ <a href="#">Homo sapiens (human)</a> ]                  |
| <b>Official Symbol</b> | <a href="#">TLR4</a>  |
| <b>Synonyms</b>        | TOLL; CD284; TLR-4; ARMD10; hToll; homolog of Drosophila toll; toll-like receptor 4 |
| <b>Gene ID</b>         | <a href="#">7099</a>  |
| <b>mRNA Refseq</b>     | <a href="#">NM_003266.3</a>   |

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**Protein Refseq** NP\_003257.1

**UniProt ID** O00206

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