

## Recombinant Human TLR2 Protein, His-tagged

Cat. No. TLR2-420H Lot. No. (See product label)

### SPECIFICATION

**Product Overview** Recombinant Human TLR2 Protein (Glu21-Thr588) with N-His tag was expressed in E. coli.

**Species** Human

**Source** E.coli

**ProteinLength** Glu21-Thr588

**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. This protein is a cell-surface protein that can form heterodimers with other TLR family members to recognize conserved molecules derived from microorganisms known as pathogen-associated molecular patterns (PAMPs). Activation of TLRs by PAMPs leads to an up-regulation of signaling pathways to modulate the host's inflammatory response. This gene is also thought to promote apoptosis in response to bacterial lipoproteins. This gene has been implicated in the pathogenesis of several autoimmune diseases. Alternative splicing results in multiple transcript variants.

**Form** Freeze-dried powder

**Molecular Mass** Predicted Molecular Mass: 67.9 kDa  
Accurate Molecular Mass: 66 kDa

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

<b>Purity</b>	> 95%
<b>Applications</b>	Positive Control; Immunogen; SDS-PAGE; WB.
<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 centigrade 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 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
<b>Storage Buffer</b>	PBS, pH7.4, containing 0.01% SKL, 1 mM DTT, 5% Trehalose and Proclin300.
<b>Reconstitution</b>	Reconstitute in sterile water to a concentration of 0.1-1.0 mg/mL. Do not vortex.

## GENE INFORMATION

<b>Gene Name</b>	TLR2 toll-like receptor 2 [ Homo sapiens (human) ]
<b>Official Symbol</b>	TLR2
<b>Synonyms</b>	TLR2; toll-like receptor 2; CD282; TIL4; toll/interleukin 1 receptor-like 4; toll/interleukin-1 receptor-like protein 4
<b>Gene ID</b>	7097
<b>mRNA Refseq</b>	NM_003264
<b>Protein Refseq</b>	NP_003255

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<b>MIM</b>	603028
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<b>UniProt ID</b>	O60603
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