

## Recombinant Human TLR3 Protein (Lys27-Ser711), His tagged

Cat. No. TLR3-3192H Lot. No. (See product label)

### SPECIFICATION

**Product Overview** Recombinant human TLR3 (Lys27-Ser711) protein fused with His tag was expressed in E. coli.

**Species** Human

**Source** E.coli

**ProteinLength** Lys27-Ser711

#### Description

Toll-like receptor 3 (TLR3) also known as CD283 (cluster of differentiation 283) is a member of the Toll-like receptor family of pattern recognition receptors of the innate immune system. TLR3/CD283 plays a fundamental role in pathogen recognition and activation of innate immunity. TLR3 is a nucleotide-sensing TLR which is activated by double-stranded RNA, a sign of viral infection. 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 receptor is most abundantly expressed in placenta and pancreas, and is restricted to the dendritic subpopulation of the leukocytes. It recognizes dsRNA associated with viral infection, and induces the activation of NF-kappaB and the production of type I interferons. It may thus play a role in host defense against viruses.

**Molecular Mass** 75.51 kDa

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<b>Purity</b>	>90 % as determined by SDS-PAGE.
<b>Notes</b>	For research use only.
<b>Storage</b>	Use a manual defrost freezer and avoid repeated freeze thaw cycles. Store at 2 to 8 centigrade for one week. Store at -20 to -80 centigrade for twelve months from the date of receipt.
<b>Storage Buffer</b>	Supplied as solution form in PBS pH 7.5 or lyophilized from PBS pH 7.5.
<b>Reconstitution</b>	Reconstitute in sterile water for a stock solution.
<b>Shipping</b>	In general, proteins are provided as lyophilized powder/frozen liquid. They are shipped out with dry ice/blue ice unless customers require otherwise.

## GENE INFORMATION

<b>Gene Name</b>	TLR3 toll-like receptor 3 [ Homo sapiens (human) ]
<b>Official Symbol</b>	TLR3
<b>Synonyms</b>	TLR3; toll-like receptor 3; CD283; IIAE2;
<b>Gene ID</b>	7098
<b>mRNA Refseq</b>	NM_003265
<b>Protein Refseq</b>	NP_003256
<b>MIM</b>	603029

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UniProt ID

O15455

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