

## TLR3 Protein, Human (HEK293, His)

<b>Cat. No.:</b>	HY-P77859
<b>Synonyms:</b>	TLR3; CD283; IIAE2
<b>Species:</b>	Human
<b>Source:</b>	HEK293
<b>Accession:</b>	Q6PCD4 (S23-E703)
<b>Gene ID:</b>	/
<b>Molecular Weight:</b>	Approximately 90-130 kDa due to the glycosylation.

### PROPERTIES

#### AA Sequence

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S S T T K C T V S H   E V A D C S H L K L   T Q V P D D L P T N   I T V L N L T H N Q
L R R L P A A N F T   R Y S Q L T S L D V   G F N T I S K L E P   E L C Q K L P M L K
V L N L Q H N E L S   Q L S D K T F A F C   T N L T E L H L M S   N S I Q K I K N N P
F V K Q K N L I T L   D L S H N G L S S T   K L G T Q V Q L E N   L Q E L L L S N N K
I Q A L K S E E L D   I F A N S S L K K L   E L S S N Q I K E F   S P G C F H A I G R
L F G L F L N N V Q   L G P S L T E K L C   L E L A N T S I R N   L S L S N S Q L S T
T S N T T F L G L K   W T N L T M L D L S   Y N N L N V V G N D   S F A W L P Q L E Y
F F L E Y N N I Q H   L F S H S L H G L F   N V R Y L N L K R S   F T K Q S I S L A S
L P K I D D F S F Q   W L K C L E H L N M   E D N D I P G I K S   N M F T G L I N L K
Y L S L S N S F T S   L R T L T N E T F V   S L A H S P L H I L   N L T K N K I S K I
E S D A F S W L G H   L E V L D L G L N E   I G Q E L T G Q E W   R G L E N I F E I Y
L S Y N K Y L Q L T   R N S F A L V P S L   Q R L M L R R V A L   K N V D S S P S P F
Q P L R N L T I L D   L S N N N I A N I N   D D M L E G L E K L   E I L D L Q H N N L
A R L W K H A N P G   G P I Y F L K G L S   H L H I L N L E S N   G F D E I P V E V F
K D L F E L K I I D   L G L N N L N T L P   A S V F N N Q V S L   K S L N L Q K N L I
T S V E K K V F G P   A F R N L T E L D M   R F N P F D C T C E   S I A W F V N W I N
E T H T N I P E L S   S H Y L C N T P P H   Y H G F P V R L F D   T S S C K D S A P F
E

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#### Biological Activity

1. Immobilized Human TLR3 at 0.5 µg/mL (100µL/Well) on the plate. Dose response curve for Anti-TLR3 Antibody with the EC<sub>50</sub> < 13.6 ng/mL determined by ELISA.

2. Measured by its ability to inhibit poly I:C induced IL-8 secretion by HEK293 human embryonic kidney cells transfected with TLR3. The ED<sub>50</sub> for this effect is 4.109 µg/mL, corresponding to a specific activity is 243.368 U/mg in the presence of 0.2 µg/mL of poly I:C.

#### Appearance

Lyophilized powder.

#### Formulation

Lyophilized from a 0.2 µm solution of PBS, pH 7.4

#### Endotoxin Level

<1 EU/µg, determined by LAL method.

<b>Reconstitution</b>	It is not recommended to reconstitute to a concentration less than 100 µg/mL in sterile distilled water.
<b>Storage &amp; Stability</b>	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
<b>Shipping</b>	Room temperature in continental US; may vary elsewhere.

## DESCRIPTION

### Background

The TLR3 Protein is a pivotal member of the Toll-like receptor family, signifying its essential role in the innate immune system's recognition of pathogen-associated molecular patterns. As part of this family, TLR3 likely shares conserved structural and functional features with related receptors, emphasizing its involvement in detecting viral double-stranded RNA. The classification within the Toll-like receptor family underscores its specific designation within the broader context of pattern recognition receptors, providing insights into its unique contributions to immune responses. The study of TLR3 contributes to our understanding of its role in host defense against viral infections, offering potential applications in vaccine development and antiviral therapies. Further exploration of TLR3's role holds promise for enhancing our knowledge of its contributions to both normal immune surveillance and pathological conditions.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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