

TLR3 Protein, Mouse (705a.a, HEK293, His)

Cat. No.:	HY-P73588
Synonyms:	Toll-like receptor 3; CD283; Tlr3
Species:	Mouse
Source:	HEK293
Accession:	Q99MB1 (M1-L705)
Gene ID:	142980
Molecular Weight:	100-110 kDa

PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O.
Storage & Stability	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.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	<p>TLR3 protein serves as a key component in both innate and adaptive immunity, playing a pivotal role in the host immune response against pathogens by recognizing specific molecular patterns associated with microorganisms. Activated by double-stranded RNA, a characteristic feature of viral infection, TLR3 functions through the adapter TRIF/TICAM1, leading to NF-kappa-B activation, nuclear translocation of IRF3, cytokine secretion, and initiation of the inflammatory response. TLR3 exists as a monomer and homodimer, with ligand-binding triggering dimerization. The signaling unit comprises one approximately 40 bp ds-RNA and two TLR3 molecules, requiring lateral clustering of signaling units along the ds-RNA ligand for effective signal transduction. Interaction with UNC93B1, SRC, and TICAM1, particularly in response to poly(I:C), contributes to its regulatory functions, highlighting the intricate molecular mechanisms involved in TLR3-mediated immune responses.</p>
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Caution: Product has not been fully validated for medical applications. For research use only.

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