# TLR3 Protein, Mouse (sf9, His)

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| **Cat. No.:** | HY-P73587 |
| **Synonyms:** | Toll-like receptor 3; CD283; Tlr3 |
| **Species:** | Mouse |
| **Source:** | Sf9 insect cells |
| **Accession:** | Q99MB1 (C29-L705) |
| **Gene ID:** | 142980 |
| **Molecular Weight:** | 75-80 kDa |

## PROPERTIES

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| **Appearance** | Lyophilized powder. |
| **Formulation** | Lyophilized from a 0.2 μm filtered solution of 50 mM Tris, 100 mM NaCl, 0.5 mM PMSF, 10% Glycerol, pH 8.5. 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. |
| **Reconsititution** | It is not recommended to reconstitute to a concentration less than 100 μg/mL in $ddH_2O$. |
| **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

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| **Background** | 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. |



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