

Product Data Sheet

TLR2 Protein, Human (sf9, His)

Cat. No.: HY-P73591

Synonyms: CD282; TIL4; TLR2; Toll-like receptor 2

Species:

Source: Sf9 insect cells Accession: O60603 (E21-R587)

Gene ID: 7097

Molecular Weight: Approximately 65.5 kDa

PROPERTIES

AA Sequence	ESSNQASLSC DRNGICKGSS GSLNSIPSGL TEAVKSLDLS NNRITYISNS DLQRCVNLQA LVLTSNGINT IEEDSFSSLG SLEHLDLSYN YLSNLSSSWF KPLSSLTFLN LLGNPYKTLG ETSLFSHLTK LQILRVGNMD TFTKIQRKDF AGLTFLEELE IDASDLQSYE PKSLKSIQNV SHLILHMKQH ILLLEIFVDV TSSVECLELR DTDLDTFHFS ELSTGETNSL IKKFTFRNVK ITDESLFQVM KLLNQISGLL ELEFDDCTLN GVGNFRASDN DRVIDPGKVE TLTIRRLHIP RFYLFYDLST LYSLTERVKR ITVENSKVFL VPCLLSQHLK SLEYLDLSEN LMVEEYLKNS ACEDAWPSLQ TLILRQNHLA SLEKTGETLL TLKNLTNIDI SKNSFHSMPE TCQWPEKMKY LNLSSTRIHS VTGCIPKTLE ILDVSNNNLN LFSLNLPQLK ELYISRNKLM TLPDASLLPM LLVLKISRNA ITTFSKEQLD SFHTLKTLEA GGNNFICSCE FLSFTQEQQA LAKVLIDWPA NYLCDSPSHV RGQQVQDVRL SVSECHR
Appearance Formulation	Lyophilized powder. Lyophilized from a 0.2 μm filtered solution of 20 mM Tris, 500 mM NaCl, pH 7.5, 10% Glycerol. 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 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.

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DESCRIPTION

Background

TLR2 protein collaborates with LY96 to orchestrate the innate immune response against bacterial lipoproteins and various microbial cell wall components. Additionally, TLR2 forms functional complexes with either TLR1 or TLR6 to recognize bacterial lipopeptides. Through the signaling pathways involving MYD88 and TRAF6, TLR2 activation leads to NF-kappa-B activation, cytokine secretion, and the initiation of inflammatory responses. The receptor plays a pivotal role in recognizing specific ligands, such as mycoplasmal macrophage-activating lipopeptide-2kD (MALP-2) and B.burgdorferi outer surface protein A lipoprotein (OspA-L), often in cooperation with TLR6. TLR2 engages in complex interactions with other receptors, including CD14 and CD36, to form activation clusters that trigger signaling events at the cell surface before being directed to the Golgi in a lipid-raft dependent pathway. Furthermore, TLR2 is crucial for the normal uptake of M.tuberculosis, and its interactions extend to various regulatory proteins such as MYD88, TICAM1, and TIRAP.

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

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