
Product Data Sheet

Product Name: TLR2 Human
 Cat. No.: GP24844
 Batch No.: 1

Product Data

Purity	>98%	Source	Sf9, Baculovirus cells.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Toll Like Receptor 2; Toll/Interleukin-1 Receptor-Like Protein 4; Toll-Like Receptor 2; TIL4; CD282 Antigen; CD282; TLR2.		
Amino Acid Sequence	KEESNQASL SCDRNGICKG SSGSLNSIPS GLTEAVKSLD LSNRITYIS NSDLQRCVNL QALVLTSGI NTIEEDSFSS LGSLEHLDS YNYLSNLSSS WFKPLSSLTF LNLGNPYKT LGETSLFSHL TKLQILRVGN MDTFTKIQRK DFAGLTFLEE LEIDASDLQS YEPKSLKSIQ NVSHLILHMK QHILLEIFV DVTSSVECLE LRDTDLDTFH FSELSTGETN SLIKKFTFRN VKITDESLFQ VMKLLNQISG LLELEFDDCT LNGVGNFRAS DNDRVIDPGK VETLTIRRLH IPRFYLFYDL STLYSLTERV KRITVENSKV FLVPCLLSQH LKSLEYLDLS ENLMVEEYK NSACEDAWPS LQTLILRQNH LASLEKTGET LLTLKNLTNI DISKNSFHSM PETCQWPEKM KYLNLSSTRI HSVTGCIPKT LEILDVSNNN LNLFSLNLPQ LKELYISRNK LMTLPDASLL PMLLVLKISR NAITTFSKEQ LDSFHTLKTLEAGGNNFICS CEFLSFTQEQ QALAKVLIDW PANYLCDSPS HVRGQQVQDV RLSVSECHRT LEHHHHHH		
Formulation	TLR2 protein solution (0.25mg/ml) containing Phosphate Buffered Saline (pH 7.4) and 10% glycerol.		

Introduction

TLR2 belongs to the Toll-like receptor (TLR) family that plays a fundamental role in pathogen recognition and activation of innate immunity. TLRs are highly conserved from *Drosophila* to humans and share structural and functional similarities. They recognize pathogen-associated molecular patterns (PAMPs) which 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. TLR2 is expressed most abundantly in peripheral blood leukocytes, and mediates host response

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

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to Gram-positive bacteria and yeast via stimulation of NF-kappaB.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

TLR2 Human Recombinant produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 578 amino acids (19-588 aa) and having a molecular mass of 65.5kDa (Migrates at 50-70kDa on SDS-PAGE under reducing conditions). TLR2 is expressed with an 8 amino acid His tag at C-Terminus and purified by proprietary chromatographic techniques.

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