Toll-Like Receptor 2 (TLR2) Horse Recombinant Protein

PRODUCT OVERVIEW

Product Name	Toll-like receptor 2 (TLR2), Recombinant Protein
Full Product Name	Recombinant Horse Toll-like receptor 2 (TLR2), partial
Product Gene Name	TLR2 recombinant protein
Product Synonym Gene Name	TLR2
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.
Molecular Weight	90,164 Da
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
3D Structure	ModBase 3D Structure for Q6T752
Species	Equus caballus (Horse)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for TLR2 recombinant protein	This protein is a member of the Toll-like receptor (TLR) family which 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) that 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. This gene is expressed most abundantly in peripheral blood leukocytes, and mediates host response to Gram-positive bacteria and yeast via stimulation of NF-kappaB.
Other Notes	Small volumes of TLR2 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for TLR2 purchase	MBS1470570 is a recombinant protein targeting TLR2. Also known as Recombinant Horse Toll-like receptor 2 (TLR2), partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for TLR2. It may not necessarily be applicable to this product.

NCBI GI #	126352393
NCBI GeneID	100009701
NCBI Accession #	NP_001075265.1
UniProt Primary Accession #	Q6T752
UniProt Related Accession #	Q6T752

GenBank Nucleotide #	NM_001081796.1
NCBI Official Full Name	toll-like receptor 2
NCBI Official Synonym Full Names	toll like receptor 2
NCBI Official Symbol	TLR2
UniProt Protein Name	Toll-like receptor 2
UniProt Synonym Protein Names	CD_antigen: CD282
Protein Family	Toll-like receptor
UniProt Gene Name	TLR2
NCBI Protein Information	toll-like receptor 2
UniProt Comments for TLR2	Cooperates with LY96 to mediate the innate immune response to bacterial lipoproteins and other microbial cell wall components. Cooperates with TLR1 or TLR6 to mediate the innate immune response to bacterial lipoproteins or lipopeptides. Acts via MYD88 and TRAF6, leading to NF-kappa-B activation, cytokine secretion and the inflammatory response (). May also promote apoptosis in response to lipoproteins. Forms activation clusters composed of several receptors depending on the ligand, these clusters trigger signaling from the cell surface and subsequently are targeted to the Golgi in a lipid-raft dependent pathway. Forms the cluster TLR2:TLR6:CD14:CD36 in response to diacylated lipopeptides and TLR2:TLR1:CD14 in response to triacylated lipopeptides ().
Research Articles on TLR2	**1.** This study provides the basis for comparative investigations into the impact of different stimuli on the cellular expression of TLRs 2, 4 and 6 in order to find out if TLRs are involved in the pathogenesis of endometrial diseases and may help to understand as to why some mares develop persistent endometritis.
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