TLR7 Blocking Peptide

PRODUCT OVERVIEW

Product Name	TLR7, Blocking Peptide
Full Product Name	TLR7 Peptide
Product Gene Name	Tlr7 blocking peptide
Product Synonym Names	Toll-like receptor 7; toll-like receptor 7
Form/Format	Liquid
Concentration	200 ug/mL (lot specific)
Preparation and Storage	Store TLR7 peptide at -20 degree C, stable for one year.
Antibody/Peptide Pairs	TLR7 peptide (MBS153105) is used for blocking the activity of TLR7 antibody (MBS150192)
Molecular Weight	121,837 Da
Species	Mouse
Buffer	PBS pH 7.2 (10 mM NaH2PO4, 10 mM Na2HPO4, 130 mM NaCl) containing 0.1% bovine serum albumin and 0.02% sodium azide
Location	14 amino acids from the middle of mouse TLR7.
Applications Tested/Suitable for Tlr7 blocking peptide	Blocking (BL)
Application Notes for Tlr7 blocking peptide	TLR7 peptide is used for blocking the activity of the TLR7 antibody.
Related Product Information for Tlr7 blocking peptide	MBS153105 is a blocking peptide targeting Tlr7. Also known as TLR7 Peptide.
Other Notes	Small volumes of Tlr7 blocking peptide 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.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Tlr7. It may not necessarily be applicable to this product.

NCBI GI #	18875360
NCBI GeneID	170743
NCBI Accession #	NP_573474
UniProt Primary Accession #	P58681
UniProt Secondary Accession #	Q923I1
UniProt Related Accession #	P58681
GenBank Nucleotide #	NM_133211.4
NCBI Official Full Name	toll-like receptor 7 isoform a
NCBI Official Synonym Full Names	toll-like receptor 7

NCBI Official Symbol	Tlr7
UniProt Protein Name	Toll-like receptor 7
Protein Family	Toll-like receptor
UniProt Gene Name	Tlr7
UniProt Entry Name	TLR7_MOUSE
NCBI Protein Information	toll-like receptor 7
UniProt Comments for Tlr7	TLR7: Key component of innate and adaptive immunity. TLRs (Toll-like receptors) control host immune response against pathogens through recognition of molecular patterns specific to microorganisms. TLR7 is a nucleotide-sensing TLR which is activated by single-stranded RNA. Acts via MYD88 and TRAF6, leading to NF-kappa-B activation, cytokine secretion and the inflammatory response. Interacts with MYD88 via their respective TIR domains. Interacts with UNC93B1. Detected in brain, placenta, spleen, stomach, small intestine, lung and in plasmacytoid pre-dendritic cells. Belongs to the Toll-like receptor family. Protein type: Membrane protein, integral Cellular Component: membrane; lysosome; endoplasmic reticulum; cytoplasm; plasma membrane; integral to membrane; cytoplasmic vesicle; endosome; receptor complex Molecular Function: protein binding; single-stranded RNA binding; transmembrane receptor activity; siRNA binding; double-stranded RNA binding; drug binding Biological Process: regulation of protein amino acid phosphorylation; immune system process; positive regulation of interleukin-8 biosynthetic process; positive regulation of interleukin-6 production; microglial cell activation; positive regulation of NF-kappaB import into nucleus; positive regulation of interferon-alpha biosynthetic process; signal transduction; toll-like receptor 7 signaling pathway; positive regulation of chemokine production; MyD88-dependent toll-like receptor signaling pathway; positive regulation of interleukin-8 production; positive regulation of interferon-beta biosynthetic process; toll-like receptor signaling pathway; innate immune response; immune response; I-kappaB phosphorylation; inflammatory response; defense response to virus; positive regulation of interferon-gamma biosynthetic process
Research Articles on Tlr7	**1.** Authors show a suppressive effect of TLR7 or TLR9 triggering on murine herpesvirus 68 reactivation that correlates with NF-kappaB activation.
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