Active Recombinant Human TLR4/LY96 Complex Protein, His-tagged

Cat. No. TLR4-296H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human TLR4(His19-Glu563)/LY96(Glu17 - Asn160) fused with His tag at C-terminal was expressed in NS0.
Species	Human
Source	Mammalian Cells
ProteinLength	19-563;17-160 a.a.
Predicted N Terminal	Glu24 (TLR4) and Glu17 (MD-2)
Form	Lyophilized from a 0.2 μm filtered solution in PBS with BSA as a carrier protein.
Bio-activity	Measured by its ability to inhibit LPS-induced TNF-alpha secretion by PMA-differentiated U937 human histiocytic lymphoma cells. Typically 20 g/mL of rhTLR4/MD-2 will inhibit >60% of the TNF-alpha secretion induced by 10 ng/mL of LPS.
Molecular Mass	Predicted Molecular Mass: 70.6 (TLR4), 19.2 (MD-2) kDa; SDS-PAGE: 95 kDa and 34 kDa, reducing conditions.
Endotoxin	<1.0 EU per 1 μg of the protein by the LAL method.
Purity	>95%, by SDS-PAGE under reducing conditions and visualized by silver stain

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Storage	Avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, -20 to -70 centigrade under sterile conditions after reconstitution.
Reconstitution	Reconstitute at 100 µg/mL in sterile PBS containing at least 0.1% human or bovine serum albumin.

GENE INFORMATION

Gene Name	TLR4 toll-like receptor 4 [Homo sapiens]
Official Symbol	TLR4
Synonyms	TLR4; toll-like receptor 4; CD284; hToll; TLR 4; homolog of Drosophila toll; TOLL; TLR-4; ARMD10;
Gene ID	7099
mRNA Refseq	NM_003266
Protein Refseq	NP_003257
UniProt ID	O00206
Chromosome Location	9q33.1
Pathway	Activated TLR4 signalling, organism-specific biosystem; Activation of IRF3/IRF7 mediated by TBK1/IKK epsilon, organism-specific biosystem; Amoebiasis, organism-specific biosystem; Amoebiasis, conserved biosystem; Chagas disease (American

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	trypanosomiasis), organism-specific biosystem; Chagas disease (American trypanosomiasis), conserved biosystem; IKK complex recruitment mediated by RIP1, organism-specific biosystem;
Function	lipopolysaccharide binding; lipopolysaccharide binding; lipopolysaccharide receptor activity; phosphatidylinositol 3-kinase binding; protein binding; receptor activity; transmembrane signaling receptor activity;

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