Recombinant Mouse Toll-like Receptor 4, Fc Chimera

Cat. No. Tlr4-2432M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant N-terminal region of the extracellular domain of mouse TLR4 (aa 24-334) produced in*HEK 293 cells*is fused at the C-terminus to the Fc portion of human IgG1 and a linker peptide (2 aa). 83kDa (SDS-PAGE).
Species	Mouse
Source	Human Cells
ProteinLength	24-334 a.a.
Description	Toll-like receptor 4 is a protein that in humans is encoded by the TLR4 gene. TLR 4 is a toll-like receptor. It detects lipopolysaccharide on Gram-negative bacteria and is thus important in the activation of the innate immune system. TLR4 has also been designated as CD284 (cluster of differentiation 284). The protein encoded by this gene 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.
Source/Host	HEK 293 cells.
Concentration	1mg/ml after reconstitution.
Purity	≥90% (SDS-PAGE).
Endotoxin Content	<0.1EU/μg purified protein (LAL test; Bio Whittaker).

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

Reconstitution	Reconstitute with 50µsterile water. Further dilutions should be made with medium containing 5% fetal calf serum or a carrier protein.
Formulation	Lyophilized. Contains PBS.
Long Term Storage	-20°C.
Use/Stability	Stable for at least 6 months after receipt when stored at -20°C.
Handling	After reconstitution, prepare aliquots and store at -20°C. Avoid freeze/thaw cycles.

GENE INFORMATION

Gene Name	Tlr4 toll-like receptor 4 [Mus musculus]
Synonyms	toll-like receptor 4; Lps; Ly87; Ran/M1; Rasl2-8; Tlr4; OTTMUSP00000000296; lipopolysaccharide response; toll-like receptor 4
Gene ID	21898
mRNA Refseq	NM_021297
Protein Refseq	NP_067272
UniProt ID	Q9QUK6
Chromosome Location	4 C1; 4 33.0 cM
Pathway	Chagas disease; Leishmaniasis; Toll-like receptor signaling pathway
Function	lipopolysaccharide binding; phosphoinositide 3-kinase binding; protein binding;

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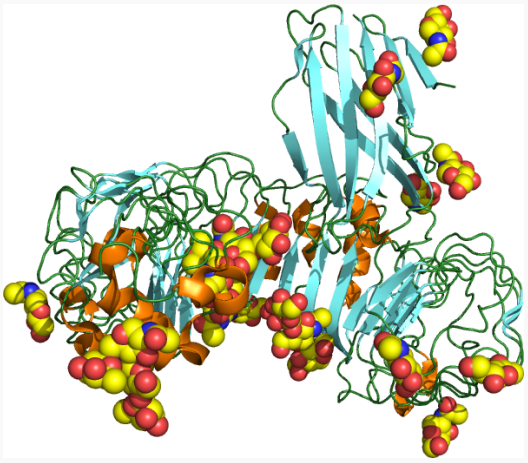
	receptor activity; transmembrane receptor activity
PDB rendering based on 2z64.	

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