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Lipopolysaccharides, from *Proteus mirabilis*

Cat. No.:	HY-D1056B2	
Target:	Toll-like Receptor (TLR)	
Pathway:	Immunology/Inflammation	
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.	Lipopolysaccharides, from <i>Proteus mirabilis</i>

BIOLOGICAL ACTIVITY

Description	Lipopolysaccharides are lipopolysaccharide endotoxins and TLR-4 activators that activate pathogenicity-associated molecular patterns (PAMPs) of the immune system and induce cell secretion of migrasomes. Lipopolysaccharides can be extracted from the outer leaflet of the outer membrane of Gram-negative bacteria and are composed of an antigenic O-specific chain, a core oligosaccharide, and lipid A. Lipopolysaccharides, from <i>Proteus mirabilis</i> is a kind of endotoxins derived from <i>Proteus mirabilis</i> ^{[1][2][3][4][1]} .
IC ₅₀ & Target	TLR-4 ^[2]

REFERENCES

- [1]. Kabanov DS, et al. Structural analysis of lipopolysaccharides from Gram-negative bacteria. *Biochemistry (Mosc)*. 2010 Apr;75(4):383-404.
- [2]. Ying Liu, et al. Podocyte-Released Migrasomes in Urine Serve as an Indicator for Early Podocyte Injury. *Kidney Dis (Basel)*. 2020 Nov;6(6):422-433.
- [3]. Heinrichs DE, et al. Molecular basis for structural diversity in the core regions of the lipopolysaccharides of *Escherichia coli* and *Salmonella enterica*. *Mol Microbiol*. 1998 Oct;30(2):221-32.
- [4]. Cai KC, et al. Age and sex differences in immune response following LPS treatment in mice. *Brain Behav Immun*. 2016 Nov;58:327-337.

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

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