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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Lipopolysaccharides, from Klebsiella pneumoniae

Cat. No.:	HY-D1056B3		
Target:	Toll-like Receptor (TLR)		
Pathway:	Immunology/Inflammation		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month

Lipopolysaccharides, from Klebsiella pneumoniae

SOLVENT & SOLUBILITY

In Vitro	H ₂ O : 5 mg/mL (Need ultrasonic and warming)
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BIOLOGICAL ACTIVITY

Description	Lipopolysaccharides, from Klebsiella, are lipopolysaccharide endotoxins. Lipopolysaccharides, from Klebsiella pneumoniae, consist of three parts: lipid A, core oligosaccharide, and O-specific antigen or O-side chain. In smooth LPS, the core region is divided into two areas: the inner core near the lipid A and the outer core that provides attachment sites for the O-antigen. In the lipopolysaccharide of Klebsiella pneumoniae, the l,d-HeppII at the O-3 position can be replaced by an α-d-galacturonic acid residue (α-d-GalpA). In most studied Enterobacteriaceae, the core LPS contains inner core phosphorylation modifications, but the core LPS of Klebsiella pneumoniae lacks this modification. The unique core structure plays an important role in the outer membrane permeability and pathogenesis of Klebsiella pneumoniae ^{[1][2][3][4][5]} .
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IC ₅₀ & Target	TLR-4 ^[2]
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REFERENCES

- [1]. Kabanov DS, et al. Structural analysis of lipopolysaccharides from Gram-negative bacteria. Biochemistry (Mosc). 2010 Apr;75(4):383-404.
- [2]. Cai KC, et al. Age and sex differences in immune response following LPS treatment in mice. Brain Behav Immun. 2016 Nov;58:327-337.
- [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]. 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.
- [5]. Izquierdo L, et al. The Klebsiella pneumoniae WabG Gene: Role In Biosynthesis of the Core Lipopolysaccharide And Virulence[J]. Journal of bacteriology, 2003, 185(24): 7213-7221.

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

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