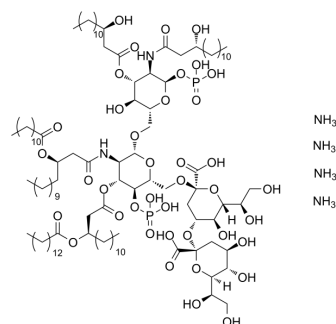


Kdo2-Lipid A ammonium

Cat. No.:	HY-N8277
CAS No.:	1246298-62-3
Molecular Formula:	C ₁₁₀ H ₂₁₄ N ₆ O ₃₉ P ₂
Molecular Weight:	2306.84
Target:	Toll-like Receptor (TLR); TNF Receptor
Pathway:	Immunology/Inflammation; Apoptosis
Storage:	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



BIOLOGICAL ACTIVITY

Description	Kdo2-Lipid A ammonium is a chemically defined lipopolysaccharide (LPS) with endotoxin activity equal to LPS. Kdo2-Lipid A ammonium is highly selective for TLR4. Kdo2-Lipid A ammonium stimulates the release of both TNF and PGE2 ^[1] .	
IC₅₀ & Target	TLR4	
In Vitro	Kdo2-Lipid A (1 μM) stimulates the release of both TNF and PGE2 from the adult rat spinal astrocytes cell cultures ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. RT-PCR ^[1]	
	Cell Line:	TNF and PGE2
	Concentration:	1 μM
	Incubation Time:	
	Result:	Amounts of protein (mg) is 6.2 ± 0.6 ng/mL and 1.4 ± 0.3 ng/mL for TNF and PGE2.
In Vivo	KDO2-Lipid A (i.t.) activates toll-like receptor 4 (TLR4) in rats ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	
	Animal Model:	Rats (Male Holzman Sprague-Dawley, 300–400 g) ^[1]
	Dosage:	0.1 to 10 μg
	Administration:	I.T.; 0.1-10 μg; prior and 15, 30, 60, 90 and 120 min after injection of Kdo2-Lipid A.
	Result:	Intrathecal injection of 1 μg Kdo2-Lipid A induces allodynia, and the animals appeared to be sick after i.t. injection of Kdo2-Lipid A.

CUSTOMER VALIDATION

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- Research Square Preprint. 2022 Feb.

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REFERENCES

[1]. Saito O, et al. Spinal glial TLR4-mediated nociception and production of prostaglandin E(2) and TNF. Br J Pharmacol. 2010;160(7):1754-1764.

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

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