

Lipopolysaccharides

Cat. No.:	HY-D1056		
Target:	Others		
Pathway:	Others		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month

Lipopolysaccharides

BIOLOGICAL ACTIVITY

Description

Lipopolysaccharides (LPS) is an endotoxin derived from the outer leaflet of the outer membrane of Gram-negative bacteria. Lipopolysaccharides consists of an antigen O-specific chain, a core oligosaccharide and lipid A^[3]. Lipopolysaccharides is a highly immunogenic antigen which can enhance immune responses^{[4][5]}. This product is derived from Escherichia coli O55:B5.

CUSTOMER VALIDATION

- J Control Release. 2020 Jan 28;320:304-313.
- Int J Biol Sci. 2020; 16(13):2382-2391.
- J Cell Mol Med. 2020 Aug 29.
- Int Immunopharmacol. 2020, 106965.
- Int J Mol Med. 2020 Nov 11.

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REFERENCES

- [1]. Rietschel ET, et al. Bacterial endotoxin: molecular relationships of structure to activity and function. FASEB J. 1994 Feb;8(2):217-25.
- [2]. Kabanov DS, et al. Structural analysis of lipopolysaccharides from Gram-negative bacteria. Biochemistry (Mosc). 2010 Apr;75(4):383-404.
- [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]. Kajiwara Y, et al. A critical role for human caspase-4 in endotoxin sensitivity. J Immunol. 2014 Jul 1;193(1):335-43.
- [5]. Lai HT, et al. Effects of repeated intratracheally administered lipopolysaccharide on primary and secondary specific antibody responses and on body weight gain of broilers. Poult Sci. 2011 Feb;90(2):337-51.

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

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