Data Sheet (Cat.No.TSW-00843)

TargetMol

Lipopolysaccharides, from Proteus vulgaris

Chemical Properties

CAS No. :

Formula:

Molecular Weight:

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	Lipopolysaccharides, from Proteus vulgaris, are endotoxins sourced from the bacterium Proteus vulgaris, functioning as TLR-4 activators and representing S-type LPS. They play a role in activating pathogen-associated molecular patterns (PAMP) and stimulate cells to secrete migration-inducing agents. This lipopolysaccharide displays a characteristic three-part structure: O antigen, core oligosaccharide, and lipid A. Furthermore, it has a unique molecular configuration and a chitosan affinity (Kb=2.72 μM), which is superior to that of Yersinia pseudotuberculosis (Kb=6.06 μM) and Escherichia coli (Kb=79.50 μM).
Targets(IC50)	TLR

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