

## Lipid A-11

## Chemical Properties

CAS No. : 2996998-09-3

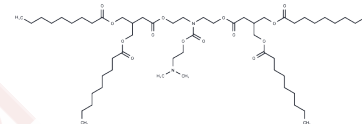
Formula: C<sub>55</sub>H<sub>100</sub>N<sub>2</sub>O<sub>14</sub>

Molecular Weight: 1013.39

Store at low temperature

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	Lipid A-11 is a lipid component of endotoxin that is primarily responsible for the toxic properties of gram-negative bacteria. Lipid A-11 constitutes the innermost region of the lipopolysaccharide (LPS) molecule, also known as endotoxin, and its hydrophobic nature facilitates anchoring of the LPS structure into the bacterial outer membrane. Lipid A-11 plays a critical role in host-pathogen interactions, contributing to septic shock and immunological activation during bacterial infections.
Targets(IC50)	Others

## Solubility Information

Solubility	Ethanol: $\geq 40$ mg/mL, Sonication is recommended. ( $< 1$ mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.9868 mL	4.9339 mL	9.8679 mL
5 mM	0.1974 mL	0.9868 mL	1.9736 mL
10 mM	0.0987 mL	0.4934 mL	0.9868 mL
50 mM	0.0197 mL	0.0987 mL	0.1974 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Mohammad R. Seyedsayamdost, et al. Antibacterial agents. WO2022125620A1. 2022-06-16.

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