

## Lipoteichoic acid

## Chemical Properties

CAS No. : 56411-57-5

Formula:

Molecular Weight:

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

## Lipoteichoic acid

## Biological Description

Description	Lipoteichoic acid, a polymer of the cell wall of gram-positive bacteria, activates the complement system by inducing C3 and inhibiting CD55, and reduces fat deposition via the IGF-1 pathway.
Targets(IC50)	ERK,Akt,Autophagy,Complement System,Interleukin,mTOR,PI3K

## Solubility Information

Solubility	DMSO: 80 mg/mL,Sonication is recommended. H2O: 5 mg/mL,Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Reference

Bong Jun Jung, et al. Lipoteichoic Acid from Staphylococcus aureus Activates the Complement System via C3 Induction and CD55 Inhibition. Microorganisms. 2021 May 24;9(6):1135.

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