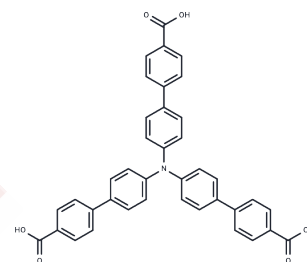


Antibacterial agent 18

Chemical Properties

CAS No. :	1239602-35-7
Formula:	C ₃₉ H ₂₇ N ₀ O ₆
Molecular Weight:	605.64
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	Antibacterial agent 18 is a multi-arm AIE molecule with antibacterial activity, inhibiting the growth of both gram-positive and gram-negative bacteria by disrupting glycosylation and transpeptidation processes, affecting bacterial cell wall synthesis, useful for studying bacterial infections.
Targets(IC50)	Antibacterial
In vitro	Antibacterial agent 18 (0.004-4 µg/mL; 24 h) inhibits the growth of Gram-positive and Gram-negative bacteria, with MICs ranging from 0.008-1 µg/mL[1].

Solubility Information

Solubility	DMSO: 16 mg/mL (26.42 mM), 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	1.6511 mL	8.2557 mL	16.5115 mL
5 mM	0.3302 mL	1.6511 mL	3.3023 mL
10 mM	0.1651 mL	0.8256 mL	1.6511 mL
50 mM	0.033 mL	0.1651 mL	0.3302 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

Jiang XY, et, al. The purposes and antibacterials of a kind of multi-arm AIE molecule in preparation antibacterials. CN110123801A.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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