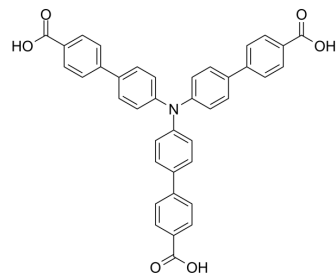


## Antibacterial agent 18

<b>Cat. No.:</b>	HY-W074648		
<b>CAS No.:</b>	1239602-35-7		
<b>Molecular Formula:</b>	C <sub>39</sub> H <sub>27</sub> NO <sub>6</sub>		
<b>Molecular Weight:</b>	605.63		
<b>Target:</b>	Bacterial		
<b>Pathway:</b>	Anti-infection		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 25 mg/mL (41.28 mM; Need ultrasonic)			
	Solvent Concentration	Mass 1 mg	5 mg	10 mg
<b>Preparing Stock Solutions</b>	1 mM	1.6512 mL	8.2559 mL	16.5117 mL
	5 mM	0.3302 mL	1.6512 mL	3.3023 mL
	10 mM	0.1651 mL	0.8256 mL	1.6512 mL
	Please refer to the solubility information to select the appropriate solvent.			
<b>In Vivo</b>	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: 2.5 mg/mL (4.13 mM); Suspended solution; Need ultrasonic			

### BIOLOGICAL ACTIVITY

<b>Description</b>	Antibacterial agent 18 is a multi-arm AIE molecule extracted from patent CN110123801A, compound 23. Antibacterial agent 18 can be used for resisting Gram-positive and Gram-negative bacteria. Antibacterial agent 18 can be conjugated in the cell wall of rigid arm configuration insertion bacterium, and block cell wall turns sugar and turns peptide process, to inhibit or kill bacterium <sup>[1]</sup> .
<b>In Vitro</b>	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 <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

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

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