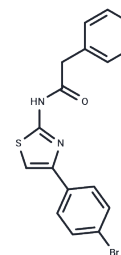


## Antibacterial agent 143

## Chemical Properties

CAS No. :	299405-68-8
Formula:	C17H13BrN2OS
Molecular Weight:	373.27
Storage:	Keep away from direct sunlight Powder: -20°C for 3 years   In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



## Biological Description

Description	Antibacterial agent 143 is a potent LpxC inhibitor (IC <sub>50</sub> = 33 nM). It blocks the rate-limiting step of LPS biosynthesis, exhibiting strong activity against Gram-negative pathogens like <i>P. aeruginosa</i> .
Targets(IC <sub>50</sub> )	Antibacterial
In vitro	Antibacterial agent 143 shows MIC values of 25 ug/mL against <i>B. subtilis</i> and <i>S. aureus</i> , and 50 ug/mL for <i>P. aeruginosa</i> and <i>E. coli</i> [1].

## Solubility Information

Solubility	DMSO: 80 mg/mL (214.32 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	2.679 mL	13.3951 mL	26.7903 mL
5 mM	0.5358 mL	2.679 mL	5.3581 mL
10 mM	0.2679 mL	1.3395 mL	2.679 mL
50 mM	0.0536 mL	0.2679 mL	0.5358 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

Ramanuj Dasgupta, et al. Oxazole and thiazole compounds as b-catenin modulators and uses thereof. Patent WO2009097113A2.

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