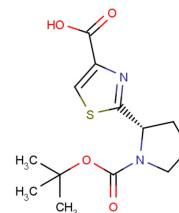


Antibiotic-5d

Chemical Properties

CAS No.:	251349-54-9
Formula:	C13H18N2O4S
Molecular Weight:	298.36
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



Biological Description

Description	Antibiotic-5d is a synthesis and antimicrobial compound.
Targets(IC ₅₀)	Antibacterial: None
In vitro	Antibiotic-5d shows moderate antibacterial activity in vitro against various Gram-negative (Escherichia coli, Proteus vulgaris, etc.) bacteria, and Gram-positive (Staphylococcus aureus, Bacillus cereus, etc.) fungi (Candida albicans), and yeast (Saccharomyces cerevisiae, etc.).

Solubility Information

Solubility	DMSO: 50 mg/mL (167.58 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.352 mL	16.758 mL	33.517 mL
5 mM	0.67 mL	3.352 mL	6.703 mL
10 mM	0.335 mL	1.676 mL	3.352 mL
50 mM	0.067 mL	0.335 mL	0.67 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. Stanchev M, et al. Synthesis and antimicrobial activity in vitro of new amino acids and peptides containing thiazole and oxazole moieties. Arch Pharm (Weinheim). 1999 Sep;332(9):297-304.

Inhibitors · Natural Compounds · Compound Libraries

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