

BO3482

Chemical Properties

CAS No.:	198013-53-5
Formula:	C ₁₄ H ₂₀ N ₂ NaO ₅ S ₂
Molecular Weight:	383.44
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

Biological Description

Description	BO3482 is an antimicrobial compound and can inhibit the growth of methicillin-resistant Staphylococci (MIC90: 6.25 mg/mL).
Targets(IC ₅₀)	Staphylococci: MIC90: 6.25 µg/mL
In vivo	In the thigh infection model with a homogeneous MRSA strain, the bacterial counts in tissues treated with BO3482-cilastatin are markedly reduced in a dose-dependent manner compared with the counts in those treated with imipenem-cilastatin and vancomycin.

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.608 mL	13.04 mL	26.08 mL
5 mM	0.522 mL	2.608 mL	5.216 mL
10 mM	0.261 mL	1.304 mL	2.608 mL
50 mM	0.052 mL	0.261 mL	0.522 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

- Adachi Y, et al. In vitro evaluation of BO-3482, a novel dithiocarbamate carbapenem with activity against methicillin-resistant staphylococci. *Antimicrob Agents Chemother.* 1997 Oct;41(10):2282-5.
- Nagano R, et al. Therapeutic efficacy of BO-3482, a novel dithiocarbamate carbapenem, in mice infected with methicillin-resistant *Staphylococcus aureus*. *Antimicrob Agents Chemother.* 1997 Oct;41(10):2278-81.

Inhibitors · Natural Compounds · Compound Libraries

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