

Product Data Sheet

Product Name: Bottromycin A2

Cat. No.: GC48365

Chemical Properties

Cas. No. 15005-62-6

SMILES O=C1[C@@]2([H])N(CC[C@H]2C)C(C/N=C([C@@H](NC([C@@H](N1)C(C)C)=O)C(C)(C)C)/N[C@@H](C(C)(C)C)C(N[C@H](C(N[C@@H](C3=NC=CS3)CC(OC)=O)=O)[C@H](C4=CC=CC=C4)C)=O=O

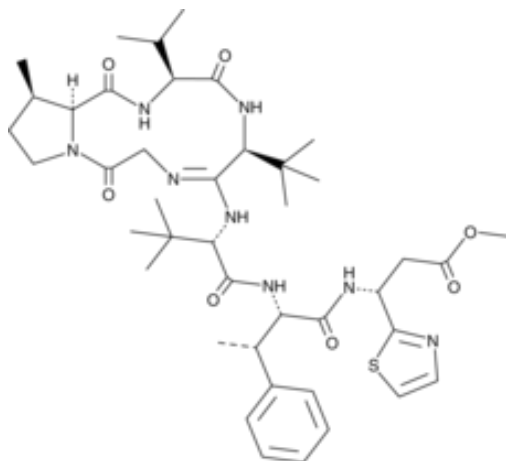
Formula C42H62N8O7S M.Wt 823.1

Solubility Ether: soluble, Methanol: soluble, Water: soluble Storage -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure



Background

Bottromycin A₂ is an antibiotic originally isolated from *Streptomyces*.¹ It blocks the binding of aminoacyl-tRNA to the A site of the 50S ribosome, inhibiting protein synthesis.² Bottromycin A₂ is active against clinical isolates of methicillin-resistant *Staphylococcus aureus* (MRSA) and vancomycin-resistant *Enterococci* with MIC values of 1 and 0.5 µg/ml, respectively.

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

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1. Nakamura, S., Yajima, T., Lin, Y., et al. Isolation and characterization of bottromycins A2, B2, C2J. Antibiot. (Tokyo)20(1)1-5(1967) 2. Gouda, H., Kobayashi, Y., Yamada, T., et al. Three-dimensional solution structure of bottromycin A2: A potent antibiotic active against methicillin-resistant Staphylococcus aureus and vancomycin-resistant Enterococci Chem. Pharm. Bull. (Tokyo)60(2)169-171(2012)

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