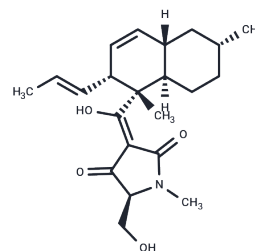


Equisetin

Chemical Properties

CAS No. :	57749-43-6
Formula:	C ₂₂ H ₃₁ NO ₄
Molecular Weight:	373.49
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	Equisetin, an N-methylserine-derived acyl tetramic acid isolated from the terrestrial fungus <i>Fusarium equiseti</i> NRRL 5537, functions as a Quorum-sensing inhibitor (QSI) that specifically attenuates QS-regulated virulence phenotypes in <i>P. aeruginosa</i> , presenting a potent lead for treating <i>P. aeruginosa</i> infections without hindering bacterial growth. This tetramate-containing natural product possesses antibiotic and cytotoxic properties, effectively inhibiting the growth of Gram-positive bacteria and HIV-1 integrase activity, yet it does not impact Gram-negative bacteria.
Targets(IC50)	Others

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.6774 mL	13.3872 mL	26.7745 mL
5 mM	0.5355 mL	2.6774 mL	5.3549 mL
10 mM	0.2677 mL	1.3387 mL	2.6774 mL
50 mM	0.0535 mL	0.2677 mL	0.5355 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.

Reference

Burmeister HR, et al. Antibiotic produced by *Fusarium equiseti* NRRL 5537. Antimicrob Agents Chemother. 1974 Jun;5(6):634-9.

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