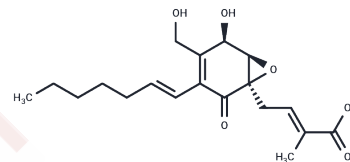


Ambuic acid

Chemical Properties

CAS No. :	340774-69-8
Formula:	C ₁₉ H ₂₆ O ₆
Molecular Weight:	350.41
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	Ambuic acid is a cyclohexanone that has phytopathogenic antifungal, quorum sensing inhibitory, and antibacterial activities. Ambuic acid inhibits the biosynthesis of cyclic peptides involved in quorum sensing, including gelatinase biosynthesis-activating pheromone (GBAP) in <i>E. faecalis</i> , autoinducing peptide I (AIP-I) in <i>S. aureus</i> , and LsrD698 and LsrD826 in <i>L. innocua</i> . It suppresses abscess formation in a mouse model of skin infection induced by methicillin-resistant <i>S. aureus</i> (MRSA) when administered at a dose of 5 µg and decreases the activity of the agr quorum sensing system in an in vivo reporter assay.
Targets(IC50)	ERK,Others,NO Synthase,COX,JNK

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.8538 mL	14.269 mL	28.538 mL
5 mM	0.5708 mL	2.8538 mL	5.7076 mL
10 mM	0.2854 mL	1.4269 mL	2.8538 mL
50 mM	0.0571 mL	0.2854 mL	0.5708 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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