

3-Oxo-C16:1

Chemical Properties

CAS No. : 1269663-80-0

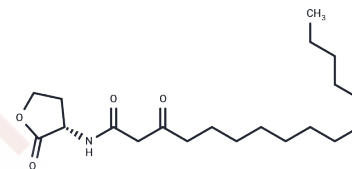
Formula: C₂₀H₃₃NO₄

Molecular Weight: 351.48

Store at low temperature

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	3-Oxo-C16:1-HSL (3oxoC16:1Δ11cis(L)HSL) is an N-acyl-homoserine lactone from <i>Pseudomonas aeruginosa</i> that inhibits the pathogenic strains of <i>Aspergillus vinelandii</i> from causing crown galls on grapes, and can be used in biosensor research.
Targets(IC50)	Others,Antibacterial

Solubility Information

Solubility	DMF: 10 mg/mL (28.45 mM),Sonication is recommended. DMSO: 10 mg/mL (28.45 mM),Sonication is recommended. Ethanol: 10 mg/mL (28.45 mM),Sonication is recommended. Ethanol:PBS (pH 7.2) (1:3): < 1 mg/mL (insoluble or slightly soluble) (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.8451 mL	14.2256 mL	28.4511 mL
5 mM	0.569 mL	2.8451 mL	5.6902 mL
10 mM	0.2845 mL	1.4226 mL	2.8451 mL
50 mM	0.0569 mL	0.2845 mL	0.569 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.

Reference

Andrew G Palmer, Plant responses to bacterial N-acyl L-homoserine lactones are dependent on enzymatic degradation to L-homoserine. ACS Chem Biol. 2014 Aug 15;9(8):1834-45.

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