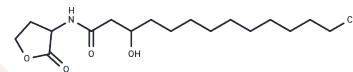


N-(3-Hydroxytetradecanoyl)-DL-homoserine lactone

Chemical Properties

CAS No. :	172670-99-4
Formula:	C ₁₈ H ₃₃ NO ₄
Molecular Weight:	327.46
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	N-(3-Hydroxytetradecanoyl)-DL-homoserine lactone [has antibacterial activity].
Targets(IC50)	Others,Antibacterial
In vitro	N-(3-Hydroxytetradecanoyl)-DL-homoserine lactone (2, 5, 10, 20 μM; 36 hours) increases the biofilms of strain N ^o 24 significantly[1]. Moderate addition of N-(3-Hydroxytetradecanoyl)-DL-homoserine lactone (10 or 20 μM) also increases biofilm formation of non-AHL-producing peanut-nodulating bacteria[1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.0538 mL	15.269 mL	30.5381 mL
5 mM	0.6108 mL	3.0538 mL	6.1076 mL
10 mM	0.3054 mL	1.5269 mL	3.0538 mL
50 mM	0.0611 mL	0.3054 mL	0.6108 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

Liu J, et al. Detection of Diverse N-Acyl-Homoserine Lactones in

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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