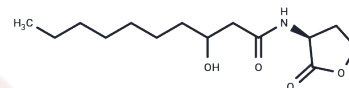


## N-3-hydroxydecanoyl-L-Homoserine lactone

## Chemical Properties

CAS No. :	192883-12-8
Formula:	C14H25NO4
Molecular Weight:	271.357
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	Quorum sensing is a regulatory system used by bacteria for controlling gene expression in response to increasing cell density. Different quorum sensing molecules are produced at different times in bacterial population growth and have distinct cellular effects mediated through changes in gene expression. N-3-hydroxydecanoyl-L-Homoserine lactone is a small diffusible signaling molecule secreted by various bacteria. This lactone is produced via lactonolysis from 3-oxodecanoyl-homoserine lactone, altering quorum sensing or contributing to quorum quenching.
Targets(IC50)	Others,Antibacterial

## Solubility Information

Solubility	Ethanol: 20 mg/mL (73.7 mM),Sonication is recommended. DMF: 20 mg/mL (73.7 mM),Sonication is recommended. DMSO: 20 mg/mL (73.7 mM),Sonication is recommended. Ethanol:PBS (pH 7.2) (1:3): 0.2 mg/mL (0.74 mM),Sonication is recommended. ( < 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.6851 mL	18.4257 mL	36.8514 mL
5 mM	0.737 mL	3.6851 mL	7.3703 mL
10 mM	0.3685 mL	1.8426 mL	3.6851 mL
50 mM	0.0737 mL	0.3685 mL	0.737 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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