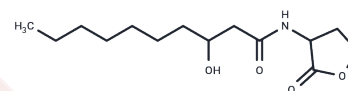


## N-3-hydroxydecanoyl-DL-Homoserine lactone

## Chemical Properties

CAS No. :	929222-14-0
Formula:	C <sub>14</sub> H <sub>25</sub> NO <sub>4</sub>
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	N-3-hydroxydecanoyl-DL-Homoserine lactone is a bacterial quorum-sensing molecule. It activates SdiA (EC <sub>50</sub> = 0.6 μM), a transcription factor that detects N-acyl homoserine lactones (AHLs), in the 14028/pJNS25 strain of <i>S. enterica</i> .2
Targets(IC50)	Others,Antibacterial,Antibiotic

## Solubility Information

Solubility	Acetonitrile: Soluble DMF: Soluble (< 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.

### Reference

Fekete, A., Frommberger, M., Rothballer, M., et al. Identification of bacterial N-acylhomoserine lactones (AHLs) with a combination of ultra-performance liquid chromatography (UPLC), ultra-high-resolution mass spectrometry, and in-situ biosensors *Anal. Bioanal. Chem.* 387(455-467)(2007)

Janssens, J.C.A., Metzger, K., Daniels, R., et al. Synthesis of N-acyl homoserine lactone analogues reveals strong activators of SdiA, the *Salmonella enterica* serovar Typhimurium LuxR homologue *Appl. Environ. Microb.* 73(2)535-544(2007)

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