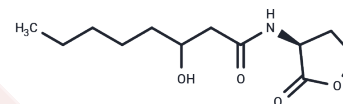


N-3-hydroxyoctanoyl-L-Homoserine lactone

Chemical Properties

CAS No. :	192883-14-0
Formula:	C ₁₂ H ₂₁ NO ₄
Molecular Weight:	243.303
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-hydroxyoctanoyl-L-Homoserine lactone, a small diffusible signaling molecule secreted by various bacteria, plays a critical role in quorum sensing—a regulatory system used by bacteria to control gene expression according to cell density changes. This compound is generated via lactonolysis from 3-oxooctanoyl-homoserine lactone and can either activate or suppress gene expression and biofilm formation. Its production and function vary within the bacterial population growth phases, consequently mediating distinct cellular effects through alterations in gene expression, hence contributing to either quorum sensing or quenching.
Targets(IC50)	Others,Antibacterial

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.1102 mL	20.5508 mL	41.1015 mL
5 mM	0.822 mL	4.1102 mL	8.2203 mL
10 mM	0.411 mL	2.0551 mL	4.1102 mL
50 mM	0.0822 mL	0.411 mL	0.822 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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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481