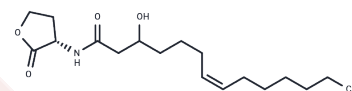


## N-(3-hydroxy-7-cis tetradecenoyl)-L-Homoserine lactone

## Chemical Properties

CAS No. :	273734-65-9
Formula:	C <sub>18</sub> H <sub>31</sub> NO <sub>4</sub>
Molecular Weight:	325.44
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-hydroxy-7-cis tetradecenoyl)-L-Homoserine lactone is a long-chain N-acyl-homoserine lactone (AHL) produced by some Gram-negative bacteria and is involved in quorum sensing. Quorum sensing enables bacteria to change gene expression based on cues from nearby bacteria and from eukaryotic hosts about nutrients, environmental conditions, or threats. Due to the benefit of quorum sensing for bacterial survival, quorum sensing molecules are potential targets for controlling bacterial infections. In mouse and human leukocyte immunoassays using LPS-stimulated macrophages, N-(3-hydroxy-7-cis tetradecenoyl)-L-homoserine lactone did not have an effect on cytokine or antibody production.
Targets(IC50)	Others,Antibacterial

## Solubility Information

Solubility	DMF: 20 mg/mL (61.46 mM),Sonication is recommended. Ethanol: 2 mg/mL (6.15 mM),Sonication is recommended. DMSO: 20 mg/mL (61.46 mM),Sonication is recommended. DMSO:PBS (pH 7.2) (1:1): 0.5 mg/mL (1.54 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
------------	--

### Preparing Stock Solutions

---

	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	3.0728 mL	15.3638 mL	30.7276 mL
5 mM	0.6146 mL	3.0728 mL	6.1455 mL
10 mM	0.3073 mL	1.5364 mL	3.0728 mL
50 mM	0.0615 mL	0.3073 mL	0.6146 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**

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481