

## 3-Oxo-C14-AHL

## Chemical Properties

CAS No. : 503610-29-5

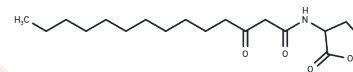
Formula: C<sub>18</sub>H<sub>31</sub>N<sub>1</sub>O<sub>4</sub>

Molecular Weight: 325.44

Store at low temperature

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-Oxotetradecanoyl)-DL-homoserine lactone, part of the N-Acyl homoserine lactone (AHL) family derived from gram-negative bacteria, serves as a quorum sensing (QS) signaling molecule.
Targets(IC50)	Others,Antibacterial

## Solubility Information

Solubility	DMSO: 80 mg/mL (245.82 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	3.0728 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.

## Reference

- Gao J, et, al. An N-acyl homoserine lactone synthase in the ammonia-oxidizing bacterium Nitrosospira multiformis. Appl Environ Microbiol. 2014 Feb;80(3):951-8.
- Nievas F, et, al. Detection, characterization, and biological effect of quorum-sensing signaling molecules in peanut-nodulating bradyrhizobia. Sensors (Basel). 2012;12(3):2851-73.

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