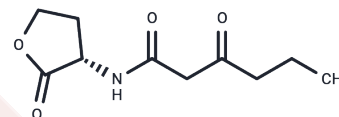


## N-(beta-Ketocaproyl)-L-hoMoserine lactone

## Chemical Properties

CAS No. :	143537-62-6
Formula:	C10H15NO4
Molecular Weight:	213.23
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-(beta-Ketocaproyl)-L-hoMoserine lactone (N-(Ketocaproyl)-L-homoserine lactone) is a component of quorum regulatory sensing and an autoinducer of <i>P. fischeri</i> luciferase.
Targets(IC50)	Others,Antibacterial

## Solubility Information

Solubility	DMSO: 45 mg/mL (211.04 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (9.38 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.6898 mL	23.4489 mL	46.8977 mL
5 mM	0.938 mL	4.6898 mL	9.3795 mL
10 mM	0.469 mL	2.3449 mL	4.6898 mL
50 mM	0.0938 mL	0.469 mL	0.938 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

Bortolotti D, et al. Pseudomonas aeruginosa Quorum Sensing Molecule N-(3-Oxododecanoyl)-L-Homoserine-Lactone Induces HLA-G Expression in Human Immune Cells. Infect Immun. 2015 Oct;83(10):3918-25.

**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