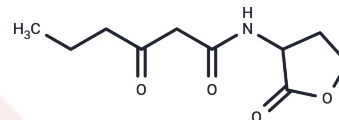


N-(Ketocaproyl)-DL-homoserine lactone

Chemical Properties

CAS No. :	76924-95-3
Formula:	C ₁₀ H ₁₅ NO ₄
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-(Ketocaproyl)-DL-homoserine lactone is a quorum sensing (QS) autoinducer and a natural, active ligand of LuxR.
Targets(IC50)	Antibacterial
In vitro	N-(Ketocaproyl)-D,L-homoserine lactone is a natural ligand of Vibrio Fischer, It also is L and D isomers.

Solubility Information

Solubility	DMSO: 45 mg/mL (211.04 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	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

Li SZ, et al. Influence of the d/l configuration of N-acyl-homoserine lactones (AHLs) and analogues on their Lux-R dependent quorum sensing activity. Bioorg Chem. 2018 Apr;77:215-222.

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