

N-hexanoyl-L-Homoserine lactone

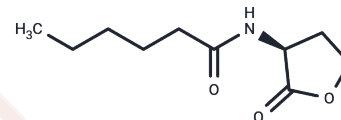
Chemical Properties

CAS No. : 147852-83-3

Formula: C₁₀H₁₇NO₃

Molecular Weight: 199.25

Storage: Keep away from moisture, Keep away from direct sunlight, Store under nitrogen
 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-hexanoyl-L-Homoserine lactone (C6-HSL), a small diffusible signaling molecule, is involved in controlling gene expression, affecting cellular metabolism, and quorum sensing.
Targets(IC50)	Antibacterial

Solubility Information

Solubility	DMSO: 250 mg/mL (1254.71 mM), Sonication is recommended. PBS (pH 7.2): 10 mg/mL (50.19 mM), Sonication is recommended. DMF: 30 mg/mL (150.56 mM), Sonication is recommended. Ethanol: 30 mg/mL (150.56 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 (10.04 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	5.0188 mL	25.0941 mL	50.1882 mL
5 mM	1.0038 mL	5.0188 mL	10.0376 mL
10 mM	0.5019 mL	2.5094 mL	5.0188 mL
50 mM	0.1004 mL	0.5019 mL	1.0038 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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