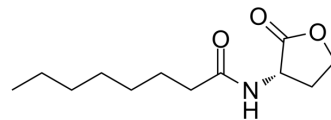


N-Octanoyl-L-homoserine lactone

Cat. No.:	HY-124237A	
CAS No.:	147852-84-4	
Molecular Formula:	C ₁₂ H ₂₁ NO ₃	
Molecular Weight:	227.3	
Target:	Bacterial	
Pathway:	Anti-infection	
Storage:	Powder	-20°C 3 years
	In solvent	-80°C 6 months
		-20°C 1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (439.95 mM; Need ultrasonic)

Concentration	Solvent	Mass	1 mg	5 mg	10 mg
			1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM		4.3995 mL	21.9974 mL	43.9947 mL
	5 mM		0.8799 mL	4.3995 mL	8.7989 mL
	10 mM		0.4399 mL	2.1997 mL	4.3995 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: 2.5 mg/mL (11.00 mM); Suspended solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: 2.5 mg/mL (11.00 mM); Suspended solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.5 mg/mL (11.00 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

N-octanoyl-L-Homoserine lactone is a small diffusible signaling molecule involved in quorum sensing, thereby controlling gene expression and affecting cellular metabolism. N-octanoyl-L-Homoserine lactone can be used for the infection prevention and regulation of virulence in cystic fibro.

Caution: Product has not been fully validated for medical applications. For research use only.

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