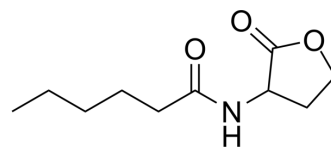


N-Hexanoyl-DL-homoserine lactone

Cat. No.:	HY-W045071
CAS No.:	106983-28-2
Molecular Formula:	C ₁₀ H ₁₇ NO ₃
Molecular Weight:	199.25
Target:	Bacterial
Pathway:	Anti-infection
Storage:	<div>Powder</div> <div>-20°C 3 years</div> <div>4°C 2 years</div> <div>In solvent</div> <div>-80°C 6 months</div> <div>-20°C 1 month</div>



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (501.88 mM; Need ultrasonic)					
	Preparing Stock Solutions	<div><div>Solvent</div><div>Concentration</div></div>	Mass	1 mg	5 mg	10 mg
		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
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (12.55 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (12.55 mM); Clear solution					
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (12.55 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	N-Hexanoyl-DL-homoserine lactone is a bacterial quorum sensing molecule produced in the rhizosphere. N-Hexanoyl-DL-homoserine lactone, a bacterial quorum sensing signal, induces transcriptional changes in Arabidopsis and may contribute to tuning plant growth to the microbial composition of the rhizosphere ^[1] .
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REFERENCES

[1]. von Rad U, et al. Response of *Arabidopsis thaliana* to N-hexanoyl-DL-homoserine-lactone, a bacterial quorum sensing molecule produced in the rhizosphere. *Planta*. 2008;229(1):73-85.

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

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