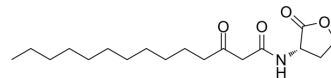


N-3-Oxo-tetradecanoyl-L-homoserine lactone

Cat. No.:	HY-116536
CAS No.:	177158-19-9
Molecular Formula:	C ₁₈ H ₃₁ NO ₄
Molecular Weight:	325.44
Target:	Bacterial
Pathway:	Anti-infection
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (307.28 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	3.0728 mL	15.3638 mL	30.7276 mL
		5 mM	0.6146 mL	3.0728 mL	6.1455 mL
		10 mM	0.3073 mL	1.5364 mL	3.0728 mL
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (7.68 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	N-3-Oxo-tetradecanoyl-L-homoserine lactone (oxo-C14-HSL) is a rhizobacterial inducer and can improve basic defense against nematodes ^[1] .
IC ₅₀ & Target	rhizobacterial ^[1]
In Vitro	N-3-Oxo-tetradecanoyl-L-homoserine lactone is a rhizobacterial inducer. N-3-Oxo-tetradecanoyl-L-homoserine can improve basic defense against nematodes ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Adss S, et al. Priming Soybean cv. Primus Leads to Successful Systemic Defense Against the Root-Lesion Nematode, *Pratylenchus penetrans*. *Front Plant Sci*.

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

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