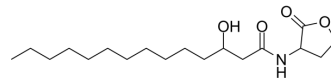


N-(3-Hydroxytetradecanoyl)-DL-homoserine lactone

Cat. No.:	HY-123087		
CAS No.:	172670-99-4		
Molecular Formula:	C ₁₈ H ₃₃ NO ₄		
Molecular Weight:	327.46		
Target:	Bacterial		
Pathway:	Anti-infection		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



BIOLOGICAL ACTIVITY

Description	N-(3-Hydroxytetradecanoyl)-DL-homoserine lactone (N-(3-oxodecanoyl)-homoserine lactone) is a member of N-Acyl homoserine lactone (AHL) from <i>V. alginolyticus</i> strains. N-(3-Hydroxytetradecanoyl)-DL-homoserine lactone is used for biofilm formation and has antibacterial activity ^[1] .
In Vitro	Moderate levels of exogenous N-(3-Hydroxytetradecanoyl)-DL-homoserine lactone (N-(3-oxodecanoyl)-homoserine lactone; 10 and 20 μM) can induce or enhance biofilm formation and alter its structure, while high levels (40 and 100 μM) does not significantly improve and even inhibits biofilm formation in <i>V. alginolyticus</i> ^[1] . N-(3-Hydroxytetradecanoyl)-DL-homoserine lactone (2, 5, 10, 20 μM; 36 hours) increases the biofilms of strain N°24 significantly ^[1] . Moderate addition of N-(3-Hydroxytetradecanoyl)-DL-homoserine lactone (10 or 20 μM) also increases biofilm formation of non-AHL-producing peanut-nodulating bacteria ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Liu J, et al. Detection of Diverse N-Acyl-Homoserine Lactones in *Vibrio alginolyticus* and Regulation of Biofilm Formation by N-(3-Oxodecanoyl) Homoserine Lactone In vitro. *Front Microbiol.* 2017 Jun 16;8:1097.

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

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