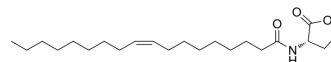


N-cis-Octadec-9Z-enoyl-L-homoserine lactone

Cat. No.:	HY-145462
CAS No.:	1400974-23-3
Molecular Formula:	C ₂₂ H ₃₉ NO ₃
Molecular Weight:	365.55
Target:	Bacterial
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	N-cis-octadec-9Z-enoyl-L-Homoserine lactone is a potent inhibitor of Ahyl. Ahyl (expressing acylhomoserine lactone) is responsible for the biosynthesis of autoinducer-1 (AI-1), commonly referred to as a quorum sensing (QS) signaling molecule, which plays an essential role in bacterial communication. N-cis-octadec-9Z-enoyl-L-Homoserine lactone is a competitive inhibitor of AI-1 biosynthesis ^[1] .
IC ₅₀ & Target	Ahyl ^[1]

REFERENCES

[1]. Ali F, et al. In silico analysis of Ahyl protein and AI-1 inhibition using N-cis-octadec-9z-enoyl-l-homoserine lactone inhibitor in *Aeromonas hydrophila*. *Microb Pathog.* 2022;162:105356.

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

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