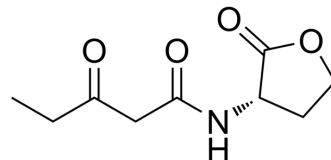


N-(3-Oxopentanoyl)-L-homoserine lactone

Cat. No.:	HY-141641
CAS No.:	148433-21-0
Molecular Formula:	C ₉ H ₁₃ NO ₄
Molecular Weight:	199.2
Target:	Bacterial
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

N-(3-Oxopentanoyl)-L-homoserine lactone is an autoinducer, a kind of chemical signal molecule which passively diffuses across the bacterial envelope and accumulates intracellularly at high bacterial densities. It may bind to a protein related to the LuxR protein of *V. fischeri* and causes cell density-dependent gene expression. N-(3-Oxopentanoyl)-L-homoserine can be used for research of quorum sensing^[1].

REFERENCES

[1]. Zhu J, et al. Analogs of the autoinducer 3-oxooctanoyl-homoserine lactone strongly inhibit activity of the TraR protein of *Agrobacterium tumefaciens*. *J Bacteriol.* 1998 Oct;180(20):5398-405.

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

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