
Product Data Sheet

Product Name: N-Octanoyl-DL-homoserine lactone

Cat. No.: GC67474

Chemical Properties

Cas. No. 106983-30-6

Formula $C_{12}H_{21}NO_3$ M.Wt 227.3

Solubility Storage Store at $-20^{\circ}C$

General tips For obtaining a higher solubility , please warm the tube at $37^{\circ}C$ and shake it in the ultrasonic bath for a while. Stock solution can be stored below $-20^{\circ}C$ for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure

Background

N-Octanoyl-DL-homoserine lactone is a member of N-acyl homoserine lactones (AHLs) family, also one of the signal molecule of quorum-sensing (QS) signals. N-Octanoyl-DL-homoserine lactone can regulate the production of siderophores and present positive correlation in *Aeromonas sobria* strain AS7. N-Octanoyl-DL-homoserine lactone can also regulate the secretion of proteases and stimulate the production of total volatile basic nitrogen (TVB-N)^[1].

[1]. Li T, et al. Involvement of Acylated Homoserine Lactones (AHLs) of *Aeromonas sobria* in Spoilage of Refrigerated Turbot (*Scophthalmus maximus* L.). *Sensors* (Basel). 2016 Jul 13;16(7):1083.

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

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