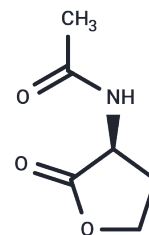


Acetyl-L-Homoserine lactone

Chemical Properties

CAS No. :	51524-71-1
Formula:	C ₆ H ₉ NO ₃
Molecular Weight:	143.14
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	Acetyl-L-homoserine lactone belongs to the family of N-acylated homoserine lactones (HSLs) and has an acyl chain length of two carbons. HSLs perform a role in quorum sensing; however, unlike other HSLs, acetyl-L-homoserine lactone does not elicit a response in bacteria. In an assay of carbapenem antibiotic biosynthesis, acetyl-L-homoserine lactone does not induce a response in <i>E. carotovora</i> . In a fluorescence assay using <i>E. coli</i> containing a reporter plasmid of GFP expression in response to exogenous HSLs, acetyl-L-homoserine does not elicit GFP production.
Targets(IC50)	Others,Antibacterial

Solubility Information

Solubility	DMSO: Soluble DMF: Soluble Ethanol: Soluble Methanol: Soluble (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	6.9862 mL	34.9308 mL	69.8617 mL
5 mM	1.3972 mL	6.9862 mL	13.9723 mL
10 mM	0.6986 mL	3.4931 mL	6.9862 mL
50 mM	0.1397 mL	0.6986 mL	1.3972 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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