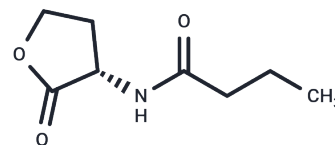


N-Butanoyl-L-homoserine lactone

Chemical Properties

CAS No. :	67605-85-0
Formula:	C ₈ H ₁₃ NO ₃
Molecular Weight:	171.19
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	N-Butanoyl-L-homoserine lactone (C4-HSL) is a cleavable ADC linker used in the synthesis of antibody-drug conjugates (ADCs). N-Butanoyl-L-homoserine lactone has antibacterial activity and is used in antibacterial biofilm[1].
Targets(IC50)	Antibacterial
In vitro	ADCs are comprised of an antibody to which is attached an ADC cytotoxin through an ADC linker.

Solubility Information

Solubility	DMSO: 30 mg/mL (175.24 mM),Sonication is recommended. H2O: 30 mg/mL (175.24 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	5.8415 mL	29.2073 mL	58.4146 mL
5 mM	1.1683 mL	5.8415 mL	11.6829 mL
10 mM	0.5841 mL	2.9207 mL	5.8415 mL
50 mM	0.1168 mL	0.5841 mL	1.1683 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.

Reference

Keith Alan Charlton, et al. Methods for the Treatment of an Infectious Bacterial Disease with an Anti-Lactone or Lactone Derived Signal Molecules Antibody. US20130045208A1

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