

N-Butanoyl-DL-homoserine lactone

Chemical Properties

CAS No. : 98426-48-3

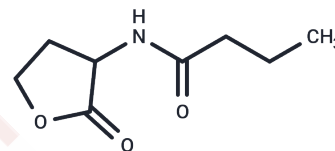
Formula: C₈H₁₃NO₃

Molecular Weight: 171.19

Store at low temperature

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	N-Butanoyl-DL-homoserine lactone ((Rac)-C4-HSL) is a racemic mixture suitable for biochemical experiments and drug synthesis research.
Targets(IC50)	Others
In vitro	The dissociation constant of aptamer binding to N-Butanoyl-DL-homoserine lactone (Kd value is 28.47 nM)[1].

Solubility Information

Solubility	DMSO: 80 mg/mL (467.32 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.

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.

Reference

Zhao M, et al. C4-HSL aptamers for blocking quorum sensing and inhibiting biofilm formation in *Pseudomonas aeruginosa* and its structure prediction and analysis. PLoS One. 2019 Feb 19;14(2):e0212041.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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