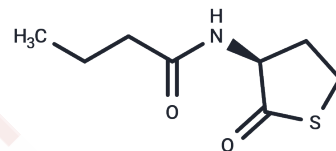


## N-butyryl-L-Homocysteine thiolactone

## Chemical Properties

CAS No. :	202284-85-3
Formula:	C <sub>8</sub> H <sub>13</sub> NO <sub>2</sub> S
Molecular Weight:	187.26
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-butyryl-L-Homocysteine thio-lactone, an analog of N-butyryl-L-homoserine lactone, is a small diffusible signaling molecule involved in quorum sensing for controlling gene expression and cellular metabolism. It induces violacein expression in <i>C. violaceum</i> mutants usually not able to produce acylhomoserine lactone (AHL), regulating genes like LuxIR family transcriptional regulators.
Targets(IC50)	Others

## Solubility Information

Solubility	DMF: 50 mg/mL (267.01 mM), Sonication is recommended. Ethanol: 25 mg/mL (133.5 mM), Sonication is recommended. DMSO: 30 mg/mL (160.21 mM), Sonication is recommended. PBS (pH 7.2): 0.5 mg/mL (2.67 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	5.3402 mL	26.7008 mL	53.4017 mL
5 mM	1.068 mL	5.3402 mL	10.6803 mL
10 mM	0.534 mL	2.6701 mL	5.3402 mL
50 mM	0.1068 mL	0.534 mL	1.068 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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