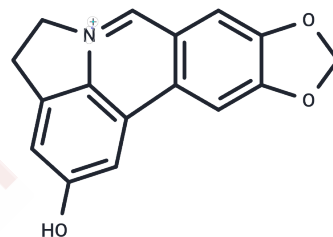


## Lycobetaine

## Chemical Properties

CAS No. :	72510-04-4
Formula:	C <sub>16</sub> H <sub>12</sub> NO <sub>3</sub> <sup>+</sup>
Molecular Weight:	266.27
Appearance:	no data available
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year



## Biological Description

Description	1. Lycobetaine (Ungeremine) is a potential biofungicide against <i>Penicillium roqueforti</i> and <i>Aspergillus niger</i> . 2. Lycobetaine have strong antibacterial activity against <i>Flavobacterium columnare</i> . 3. Lycobetaine effectively targets mammalian as well as bacterial type I and type II topoisomerases. 4. Lycobetaine shows strong acetylcholinesterase inhibitory activity (IC <sub>50</sub> value of 0.35 microM). 5. Lycobetaine has antiprotozoal activity, it shows good activity in in vitro assays against <i>Trypanosoma brucei rhodesiense</i> , <i>T. cruzi</i> .
Targets(IC <sub>50</sub> )	Antibacterial

## Solubility Information

Solubility	Ethanol: 5 mg/mL (18.78 mM), Sonication is recommended. DMSO: 2.67 mg/mL (10.03 mM), Sonication is recommended. Chloroform, Dichloromethane, Ethyl Acetate, Acetone, etc.: Soluble, ( $< 1$ mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.7556 mL	18.7779 mL	37.5559 mL
5 mM	0.7511 mL	3.7556 mL	7.5112 mL
10 mM	0.3756 mL	1.8778 mL	3.7556 mL
50 mM	0.0751 mL	0.3756 mL	0.7511 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

Valerio F , Masi M , Cimmino A , et al. Antimould microbial and plant metabolites with potential use in intelligent food packaging[J]. Natural Product Research, 2017:1-6.

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