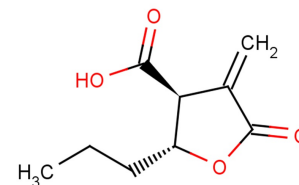


## Butyrolactone 3

## Chemical Properties

CAS No.:	778649-18-6
Formula:	C <sub>9</sub> H <sub>12</sub> O <sub>4</sub>
Molecular Weight:	184.19
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



## Biological Description

Description	Butyrolactone 3 is a specific inhibitor of the histone acetyltransferase Gcn5 (IC <sub>50</sub> : 100 μM) with a high affinity to the Gcn5 enzyme comparable to that of its natural substrate, histone H3. Butyrolactone 3 shows weak inhibitory on CBP (IC <sub>50</sub> : 0.5 mM).
Targets(IC <sub>50</sub> )	GCN5: 100 μM

## Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	5.429 mL	27.146 mL	54.292 mL
5 mM	1.086 mL	5.429 mL	10.858 mL
10 mM	0.543 mL	2.715 mL	5.429 mL
50 mM	0.109 mL	0.543 mL	1.086 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

## Reference

1. Biel M, et al. Design, synthesis, and biological evaluation of a small-molecule inhibitor of the histone acetyltransferase Gcn5. *Angew Chem Int Ed Engl.* 2004 Jul 26;43(30):3974-6

Inhibitors · Natural Compounds · Compound Libraries

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