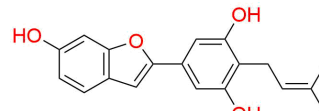


## Moracin C

## Chemical Properties

CAS No.:	69120-06-5
Formula:	C <sub>19</sub> H <sub>18</sub> O <sub>4</sub>
Molecular Weight:	310.4
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



## Biological Description

Description	Moracin C and D, new phytoalexins from diseased mulberry, are antifungal compounds.
Targets(IC <sub>50</sub> )	ROS: None NOS: None COX: None
In vitro	In the screening of inhibitors of Staphylococcus aureus enoyl-ACP reductase (FabI), we found that a methanol extract of leaves of Morus alba L. potentially inhibited S. aureus FabI as well as growth of S. aureus. The active principles were identified as chalcomoracin and Moracin C by MS and NMR analysis. Chalcomoracin and Moracin C inhibited S. aureus FabI with IC(50) of 5.5 and 83.8 μM, respectively. They also prevented the growth of S. aureus with minimum inhibitory concentration (MIC) of 4 and 32 μg/mL, respectively. Consistent with their inhibition against FabI and bacterial growth, they prevented (14)C]acetate incorporation into fatty acid in S. aureus while didn't affect protein synthesis.

## 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	3.222 mL	16.108 mL	32.216 mL
5 mM	0.644 mL	3.222 mL	6.443 mL
10 mM	0.322 mL	1.611 mL	3.222 mL
50 mM	0.064 mL	0.322 mL	0.644 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. Chalcomoracin and moracin C, new inhibitors of Staphylococcus aureus enoyl-acyl carrier protein reductase from Morus alba. Biol Pharm Bull. 2012;35(5):791-5.

Inhibitors · Natural Compounds · Compound Libraries

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Tel:781-999-4286

E-mail:[info@targetmol.com](mailto:info@targetmol.com)

Address:36 Washington Street,Wellesley Hills,MA 02481