

## Macrocarpal H

## Chemical Properties

CAS No.:	179388-53-5
Formula:	C <sub>28</sub> H <sub>40</sub> O <sub>6</sub>
Molecular Weight:	472.6
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

## Biological Description

Description	Macrocarpal H has anti-glucosyltransferase, and anti-bacterial activities.
Targets(IC <sub>50</sub> )	Antifection: None
In vitro	METHODS AND RESULTS: A 50% EtOH extract of Eucalyptus globulus leaves yielded eight phloroglucinol--sesquiterpene-coupled constituents, including three novel compounds named Macrocarpal H, macrocarpal I, and macrocarpal J. CONCLUSIONS: Some of these compounds possessed antibacterial activity against oral pathogenic microorganisms with MIC values ranging from 0.20 micrograms/mL to 6.25 micrograms/mL. Inhibition of glucosyltransferase activity by these compounds was also noted.

## 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	2.116 mL	10.580 mL	21.160 mL
5 mM	0.423 mL	2.116 mL	4.232 mL
10 mM	0.212 mL	1.058 mL	2.116 mL
50 mM	0.042 mL	0.212 mL	0.423 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. Macrocarpals H, I, and J from the Leaves of Eucalyptus globulus. J Nat Prod. 1996 Sep;59(9):823-7.

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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