

Macrocarpal J

Chemical Properties

CAS No.:	179603-47-5
Formula:	C ₂₈ H ₄₂ O ₇
Molecular Weight:	490.6
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

Biological Description

Description	Macrocarpal J has anti-bacterial activity, it also has anti-glucosyltransferase activity.
Targets(IC ₅₀)	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
------------	---

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.038 mL	10.192 mL	20.383 mL
5 mM	0.408 mL	2.038 mL	4.077 mL
10 mM	0.204 mL	1.019 mL	2.038 mL
50 mM	0.041 mL	0.204 mL	0.408 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.

Inhibitors · Natural Compounds · Compound Libraries

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use.

Tel:781-999-4286

E-mail:info@targetmol.com

Address:36 Washington Street,Wellesley Hills,MA 02481