

Macrocarpal B

Chemical Properties

CAS No.:	142698-60-0
Formula:	C ₂₈ H ₄₀ O ₆
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	The intestinal absorption of M-A, Macrocarpal B, and Cy-C was passive diffusion as the dominating process and Cy-C was partly ATP-dependent.
Targets(IC ₅₀)	c-Met: None
In vitro	The uptake and transepithelial transport of the three main constituents macrocarpal A (M-A), Macrocarpal B (M-B), and cypellocarpa C (Cy-C) from the fruits of Eucalyptus globulus Labill. were investigated. METHODS AND RESULTS: Monolayers of the human intestinal epithelial cancer cell line Caco-2 were incubated with M-A, Macrocarpal B, and Cy-C to model its intestinal absorption and transport, respectively. The determination of compounds was performed by HPLC. The apparent permeability coefficients (P _{app}) for M-A, Macrocarpal B, and Cy-C in the apical-to-basolateral direction of a Caco-2 monolayer were (1.70+/-0.06)x10 ⁻⁶ , (1.99+/-0.10)x10 ⁻⁶ , and (6.08+/-0.41)x10 ⁻⁶ cm/s, respectively. In the presence of iodoacetamide, the P _{app} of Cy-C were both reduced in apical-to-basolateral and basolateral-to-apical directions. M-A and Macrocarpal B appear to accumulate in the epithelial cells. CONCLUSIONS: The intestinal absorption of M-A, Macrocarpal B, and Cy-C was passive diffusion as the dominating process and Cy-C was partly ATP-dependent.

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. Intestinal permeability of antivirus constituents from the fruits of Eucalyptus globulus Labill. in Caco-2 Cell Model. Bioorg Med Chem Lett. 2007 Feb 15;17(4):1107-11.

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