

Murralongin

Chemical Properties

CAS No.:	53011-72-6
Formula:	C ₁₅ H ₁₄ O ₄
Molecular Weight:	258.3
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

Biological Description

Description	Murralongin exhibits cytotoxicity against cholangiocarcinoma cell line, KKU-100.
Targets(IC ₅₀)	Others: None
In vitro	<p>METHODS AND RESULTS: Two new coumarin compounds (1 and 2), phebalosin (3), its derived artifact Murralongin (4), and murrangatin acetonide (5) were isolated from the leaves of <i>Galipea panamensis</i>. The structures of 1 and 2 were assigned as 7-[[[(2R*)-3,3-dimethyloxiran-2-yl]methoxy]-8-[(2R*,3R*)-3-isopropenyloxiran-2-yl]-2H-chromen-2-one and 7-methoxy-8-(4-methyl-3-furyl)-2H-chromen-2-one, respectively, on the basis of their spectroscopic data (primarily NMR and MS). Compounds 1-3 were tested against axenic amastigote forms of <i>Leishmania panamensis</i> and displayed 50% effective concentrations (EC₅₀) of 9.9, 10.5, and 14.1 microg/mL, respectively. CONCLUSIONS: These three compounds also displayed cytotoxicity (IC₅₀) at concentrations of 9.7, 33.0, and 20.7 microg/mL, respectively, on human promonocytic U-937 cells.</p>

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	3.871 mL	19.357 mL	38.715 mL
5 mM	0.774 mL	3.871 mL	7.743 mL
10 mM	0.387 mL	1.936 mL	3.871 mL
50 mM	0.077 mL	0.387 mL	0.774 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. Coumarins from *Galipea panamensis* and Their Activity against *Leishmania panamensis*. J Nat Prod. 2010 May 28;73(5):1012-4.

Inhibitors · Natural Compounds · Compound Libraries

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Tel:781-999-4286

E-mail:info@targetmol.com

Address:36 Washington Street,Wellesley Hills,MA 02481