

Loureiriol

Chemical Properties

CAS No.:	479195-44-3
Formula:	C ₁₆ H ₁₄ O ₆
Molecular Weight:	302.3
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

Biological Description

Targets(IC ₅₀)	Others: None
In vitro	<p>METHODS AND RESULTS: From the stem wood of <i>Dracaena loureiri</i>, a new homoisoflavanone named Loureiriol (1) and eight known flavonoid and stilbenoid derivatives, including 5,7-dihydroxy-3-(4-hydroxybenzyl)-4-chromanone (2), 4,4'-dihydroxy-2,6-dimethoxydihydrochalcone (3), 2,4'-dihydroxy-4,6-dimethoxydihydrochalcone (4), 4'-hydroxy-2,4,6-trimethoxydihydrochalcone (5), 4,6,4'-trihydroxy-2-methoxydihydrochalcone (6), 4,3',5'-trihydroxystilbene (7), 4,3'-dihydroxy-5'-methoxystilbene (8) and 4-hydroxy-3',5'-dimethoxystilbene (9) were isolated. These compounds were evaluated for their inhibitory activity against the enzymes cyclooxygenase-1 and cyclooxygenase-2. CONCLUSIONS: Potent but non-selective activity was found for the stilbenoids 7-9 (IC₅₀) 1.29 - 4.92 µM) whereas weak or no activity was observed for the flavonoids 1-6.</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	3.308 mL	16.540 mL	33.080 mL
5 mM	0.662 mL	3.308 mL	6.616 mL
10 mM	0.331 mL	1.654 mL	3.308 mL
50 mM	0.066 mL	0.331 mL	0.662 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. Flavonoids and stilbenoids with COX-1 and COX-2 inhibitory activity from *Dracaena loureiri*. *Planta Med.* 2002 Sep;68(9):841-3.

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