

Cudraxanthone L

Chemical Properties

CAS No.:	135541-40-1
Formula:	C ₂₃ H ₂₄ O ₆
Molecular Weight:	396.4
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

Biological Description

Description	Cudraxanthone L shows the significant hepatoprotective effect on nitrofurantoin-induced cytotoxicity in human liver-derived Hep G2 cells.
Targets(IC ₅₀)	Others: None
In vitro	<p>METHODS AND RESULTS: Four new prenylated xanthenes, cudraticusxanthenes J-M (1-4), were isolated from the CH₂Cl₂-soluble extract of the root bark of <i>Cudrania tricuspidata</i>, along with four known prenylated xanthenes, isocudraxanthone K (5), cudraxanthone C (6), cudraticusxanthone A (7), and Cudraxanthone L (8), and three known prenylated flavonoids, cudraflavone A (9), cudraflavanone A (10), and cudraflavone B (11).</p> <p>CONCLUSIONS: The structures of compounds 1-4 were elucidated using spectroscopic methods. Cudraticusxanthone A (7), cudraflavanone A (10), and cudraflavone B (11) showed moderate inhibitory effects on mouse brain monoamine oxidase (MAO) with IC₅₀ values of 88.3, 89.7, and 80.0 microM, respectively.</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	2.523 mL	12.614 mL	25.227 mL
5 mM	0.505 mL	2.523 mL	5.045 mL
10 mM	0.252 mL	1.261 mL	2.523 mL
50 mM	0.050 mL	0.252 mL	0.505 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. Prenylated xanthenes from the root bark of *Cudrania tricuspidata*. J Nat Prod. 2007 Jul;70(7):1207-9.
2. Hepatoprotective constituents of *Cudrania tricuspidata*. Arch Pharm Res. 2005 Jan;28(1):44-8.

Inhibitors · Natural Compounds · Compound Libraries

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