

Curcolonol

Chemical Properties

CAS No.:	217817-09-9
Formula:	C ₁₅ H ₂₀ O ₄
Molecular Weight:	264.3
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

Biological Description

Description	Standard reference
Targets(IC ₅₀)	Others: None
In vitro	METHODS AND RESULTS: Bioassay-directed fractionation of an EtOH extract of <i>Curcuma zedoaria</i> led to isolation of an active curcuminoid, which was identified as demethoxycurcumin (2) by comparison of its ¹ H and ¹³ C NMR spectra with literature data and by direct comparison with synthetic material. Curcumin (1) and bisdemethoxycurcumin (3) were also obtained. Curcuminoids (1-3) were synthesized and demonstrated to be cytotoxic against human ovarian cancer OVCAR-3 cells. CONCLUSIONS: The observed CD50 values of 1, 2, and 3 were 4.4, 3.8, and 3.1 microg/mL, respectively. Three additional novel compounds, 3, 7-dimethylindan-5-carboxylic acid (4), Curcolonol (5), and guaidiol (6), were also isolated from the EtOH extract. The structures and relative stereochemistry of 4-6 were determined by spectroscopic methods and X-ray crystallographic analysis.

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	3.784 mL	18.918 mL	37.836 mL
5 mM	0.757 mL	3.784 mL	7.567 mL
10 mM	0.378 mL	1.892 mL	3.784 mL
50 mM	0.076 mL	0.378 mL	0.757 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. Cytotoxicity of curcuminoids and some novel compounds from *Curcuma zedoaria*. *J Nat Prod.* 1998 Dec;61(12):1531-4.

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