

Arnidiol

Chemical Properties

CAS No.:	6750-30-7
Formula:	C ₃₀ H ₄₈ O ₂
Molecular Weight:	440.7
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

Biological Description

Description	Arnidiol has anti-inflammatory activity, it possesses marked inhibitory activity against 12-O-tetradecanoylphorbol-13-acetate (TPA)-induced inflammation in mice.
Targets(IC ₅₀)	Immunology & Inflammation related: None
In vitro	Fifteen pentacyclic triterpene diols and triols, consisting of: six taraxastanes, faradiol (1), heliantriol B0 (2), heliantriol C (3), 22alpha-methoxyfaradiol (4), Arnidiol (5), and faradiol alpha-epoxide (6); five oleananes, maniladiol (7), erythrodiol (8), longispinogenin (9), coflodiol (10), and heliantriol A(1) (11); two ursanes, brein (12) and uvaol (13); and two lupanes, calenduladiol (14) and heliantriol B2 (15), isolated from the non-saponifiable lipid fraction of the edible flower extract of chrysanthemum (<i>Chrysanthemum morifolium</i>) were evaluated for their inhibitory effects on Epstein-Barr virus early antigen (EBV-EA) activation induced by the tumor promoter, 12-O-tetradecanoylphorbol-13-acetate, in Raji cells as a primary screening test for anti-tumor-promoters.

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	2.269 mL	11.346 mL	22.691 mL
5 mM	0.454 mL	2.269 mL	4.538 mL
10 mM	0.227 mL	1.135 mL	2.269 mL
50 mM	0.045 mL	0.227 mL	0.454 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. Constituents of Compositae plants III. Anti-tumor promoting effects and cytotoxic activity against human cancer cell lines of triterpene diols and triols from edible chrysanthemum flowers. *Cancer Lett.*, 2002, 177(1):7-12.

Inhibitors · Natural Compounds · Compound Libraries

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