

Erysubin A

Chemical Properties

CAS No.:	221150-18-1
Formula:	C ₂₀ H ₁₆ O ₆
Molecular Weight:	352.3
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

Biological Description

Description	Erysubin A, wighteone, and lupalbigenin show promising cytotoxic effects toward HL-60 cells (IC ₅₀ 4.3 ± 0.7 to 18.0 ± 1.7 μM).
Targets(IC ₅₀)	NO: None
In vitro	METHODS AND RESULTS: Inhibitory effects of NO production in RAW 264.7 macrophages guided the isolation of nine prenylated isoflavones, including a new cudraisoiflavone L (1) and eight known metabolites furowanin B (2), Erysubin A (3), wighteone (4), lupalbigenin (5), laburnetin (6), isolupalbigenin (7), 6,8-diprenylorobol (8), millewanin H (9) from the leaves of <i>Cudrania tricuspidata</i> . CONCLUSIONS: At the concentration of 10 μM, compounds 1, 2, and 4 significantly inhibited NO production with the inhibitory values of 72.5 ± 2.4, 66.9 ± 1.8, and 55.4 ± 2.7%, respectively. In addition, all of isolated compounds 1-9 showed promising cytotoxic effects toward HL-60 cells (IC ₅₀ 4.3 ± 0.7 to 18.0 ± 1.7 μM).

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	2.838 mL	14.192 mL	28.385 mL
5 mM	0.568 mL	2.838 mL	5.677 mL
10 mM	0.284 mL	1.419 mL	2.838 mL
50 mM	0.057 mL	0.284 mL	0.568 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 isoflavones from *Cudrania tricuspidata* inhibit NO production in RAW 264.7 macrophages and suppress HL-60 cells proliferation. *J Asian Nat Prod Res.* 2017 May;19(5):510-8.

Inhibitors · Natural Compounds · Compound Libraries

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