

## Isolupalbigenin

**Chemical Properties**

CAS No.:	162616-70-8
Formula:	C <sub>25</sub> H <sub>26</sub> O <sub>5</sub>
Molecular Weight:	406.48
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

**Biological Description**

Description	Isolupalbigenin shows promising cytotoxic effects toward HL-60 cells (IC <sub>50</sub> 4.3 ± 0.7 to 18.0 ± 1.7 μM), it also shows in vitro inhibitory activity toward human glyoxalase I. Isolupalbigenin shows two different antibacterial activities against MRSA: direct growth inhibition and intensification of methicillin sensitivity, it could lead to the development of compounds for new approaches against MRSA infection.
Targets(IC <sub>50</sub> )	Antifection: None 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 cudraisoflavone L (1) and eight known metabolites furovanin B (2), erysubin A (3), wighteone (4), lupalbigenin (5), laburnetin (6), Isolupalbigenin (7), 6,8-diprenylorobol (8), millewanin H (9) from the leaves of Cudrania tricuspidata. 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 <sub>50</sub> 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	2.460 mL	12.301 mL	24.601 mL
5 mM	0.492 mL	2.460 mL	4.920 mL
10 mM	0.246 mL	1.230 mL	2.460 mL
50 mM	0.049 mL	0.246 mL	0.492 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):510-518.
2. Different antibacterial actions of isoflavones isolated from *Erythrina poeppigiana* against methicillin-resistant *Staphylococcus aureus*. *Lett Appl Microbiol.* 2006 Sep;43(3):243-8.

**Inhibitors · Natural Compounds · Compound Libraries**

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