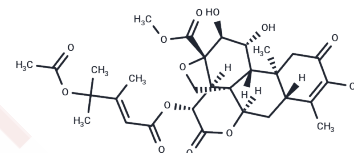


Bruceantinol

Chemical Properties

CAS No. : 53729-52-5
 Formula: C₃₀H₃₈O₁₃
 Molecular Weight: 606.61
 Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.



Biological Description

Description	Bruceantinol has antiviral activity, it can inhibit pepper mottle virus in pepper; it shows antibabesial activity against Babesia gibsoni in vitro, with the IC ₅₀ value of 12 ng/mL.
Targets(IC ₅₀)	Apoptosis, Anti-infection, Bcl-2 Family, CDK, STAT, c-Myc, Necroptosis, Serine/threonin kinase, Survivin
In vitro	A green fluorescent protein (GFP)-tagged pepper mottle virus (PepMoV) based leaf-disc method and systemic host method were developed to identify antiviral agents. Preliminary experiments using a PepMoV-GFP based leaf-disc method led to the isolation of five quassinoids, including brusatol (1), bruceantin (2), brucein A (3), Bruceantinol (4), and brucein B (5), from the CH ₃ OH extract of Brucea javanica[1]

Solubility Information

Solubility	DMSO: 55 mg/mL (90.67 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 1 mg/mL (1.65 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.6485 mL	8.2425 mL	16.4851 mL
5 mM	0.3297 mL	1.6485 mL	3.297 mL
10 mM	0.1649 mL	0.8243 mL	1.6485 mL
50 mM	0.033 mL	0.1649 mL	0.3297 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Quassinoids isolated from Brucea javanica inhibit pepper mottle virus in pepper. *Virus Res.* 2017 Jan 2;227:49-56.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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