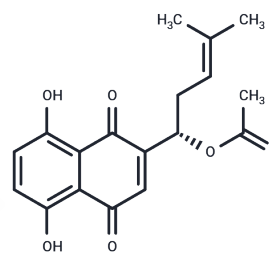


Acetylalkannin

Chemical Properties

CAS No. :	34232-27-4
Formula:	C ₁₈ H ₁₈ O ₆
Molecular Weight:	330.33
Storage:	Keep away from direct sunlight Powder: -20°C for 3 years In solvent: -80°C for 1 year <i>Actual storage temperature shall be subject to the COA.</i>



Biological Description

Description	Acetylalkannin (Alkannin acetate), an isohexenylnaphthazarin pigment extracted from <i>Arnebia euchroma</i> , exhibits antimicrobial and cytotoxic properties.
Targets(IC50)	Antibacterial

Solubility Information

Solubility	DMSO: 103 mg/mL (311.81 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 (3.03 mM), Sonication is recommended. 10% DMSO+90% Saline: 2.58 mg/mL (7.81 mM), Suspension. <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	3.0273 mL	15.1364 mL	30.2728 mL
5 mM	0.6055 mL	3.0273 mL	6.0546 mL
10 mM	0.3027 mL	1.5136 mL	3.0273 mL
50 mM	0.0605 mL	0.3027 mL	0.6055 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

Harilaos Damianakos, et al. Antimicrobial and cytotoxic isohexenylnaphthazarins from *Arnebia euchroma* (Royle) Jonst. (Boraginaceae) callus and cell suspension culture. *Molecules*. 2012 Dec 3;17(12):14310-22.

Acetyl alkannin: A promising naphthoquinone derivative for breast cancer drug development research

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