

2-Desoxy-4-epi-pulchellin

Chemical Properties

CAS No. : 122872-03-1

Formula: C₁₅H₂₂O₃

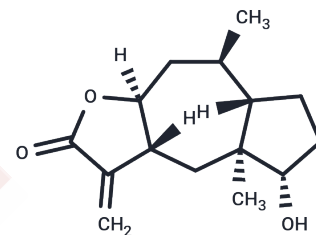
Molecular Weight: 250.33

Keep away from direct sunlight, Keep away from moisture

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	2-Desoxy-4-epi-pulchellin has potent in vitro cytotoxicities against the K562, MCF-7, Hela, DU145, U937, H1975, SGC-7901, A549, MOLT-4, and HL60 cell lines with IC ₅₀ values ranging from 0.10 to 46.7 μM, while it shows significant antiviral (H1N1 and H3N2) activities, it also displays significant antimycobacterial activity (IC ₅₀ =7.6 μM).
Targets(IC ₅₀)	Anti-infection
In vitro	Dicarabrol (1), as well as three known sesquiterpenes (2-4), had potent in vitro cytotoxicities against the K562, MCF-7, Hela, DU145, U937, H1975, SGC-7901, A549, MOLT-4, and HL60 cell lines with IC ₅₀ values ranging from 0.10 to 46.7 μM, while they showed significant antiviral (H1N1 and H3N2) activities. Furthermore, compounds 1, 3 and 4 displayed significant antimycobacterial activity (IC ₅₀ 3.7, 6.0, and 7.6 μM, respectively).

Solubility Information

Solubility	DMSO: 55 mg/mL (219.71 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.9947 mL	19.9736 mL	39.9473 mL
5 mM	0.7989 mL	3.9947 mL	7.9895 mL
10 mM	0.3995 mL	1.9974 mL	3.9947 mL
50 mM	0.0799 mL	0.3995 mL	0.7989 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

Dicarabrol, a new dimeric sesquiterpene from *Carpesium abrotanoides* L. *Bioorg Med Chem Lett.* 2015 Oct 1;25 (19):4082-4.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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