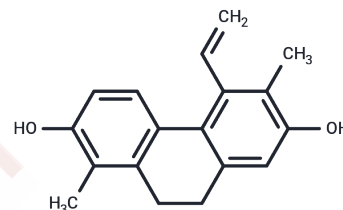


Juncusol

Chemical Properties

CAS No. :	62023-90-9
Formula:	C ₁₈ H ₁₈ O ₂
Molecular Weight:	266.33
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	Juncusol is a phenolic compound isolated from <i>Juncus roemerianus</i> (black needlerush), which has anxiolytic activity and exhibits anti-proliferative effects in cervical cancer cell lines.
Targets(IC50)	Others
In vitro	In HeLa cells, the IC ₅₀ of Juncusol was 0.95 μM. Juncusol significantly inhibited the growth of HeLa cells, but had no effect on CaSki and SiHa cells. Juncusol (3 μM, 48h) resulted in a significant increase in G ₂ /M phase HeLa cells, while a decrease in G ₁ phase HeLa cells. Juncusol induces cell death through a caspase-dependent pathway. Juncusol (200 μM) decreased the polymerization rate of tubulin in HeLa cells. [1]
In vivo	Juncusol (2.5, 5 mg/kg) increased the duration of open arms (OT) stay and the duration of entry into OE in the elevated positive maze test, showing antianxiety activity. [2]

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.7547 mL	18.7737 mL	37.5474 mL
5 mM	0.7509 mL	3.7547 mL	7.5095 mL
10 mM	0.3755 mL	1.8774 mL	3.7547 mL
50 mM	0.0751 mL	0.3755 mL	0.7509 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

Kuo CY, et al. Investigation of natural phenanthrenes and the antiproliferative potential of juncusol in cervical cancer cell lines. *Phytomedicine*. 2019 May;58:152770.

Wang YG, et al. Phenanthrenes from *Juncus effusus* with anxiolytic and sedative activities. *Nat Prod Res*. 2012;26(13):1234-9.

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