

Podocarpusflavone A

Chemical Properties

CAS No.:	22136-74-9
Formula:	C ₃₁ H ₂₀ O ₁₀
Molecular Weight:	552.48
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

Biological Description

Description	Podocarpusflavone A is a DNA topoisomerase I inhibitor. It has moderated anti-proliferative activity induce cell apoptosis in MCF-7.
In vitro	Podocarpusflavone A shows significant inhibitions against KB, DLD, HEp-2, MCF-7 tumor cell lines (ED ₅₀ 4.56-16.24 µg/mL) and induces cell apoptosis in MCF-7 via mainly sub-G1/S phase arrest. PF (40 ug/mL, 24 hr) significantly induced about 10 folds of cell deaths and growth arrest in S-phase than the control group.

Solubility Information

Solubility	DMSO: Soluble (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.81 mL	9.05 mL	18.1 mL
5 mM	0.362 mL	1.81 mL	3.62 mL
10 mM	0.181 mL	0.905 mL	1.81 mL
50 mM	0.036 mL	0.181 mL	0.362 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. Pen-Ho Yeh et al. Naturally Occurring Cytotoxic [3'→8"]-Biflavonoids from Podocarpus nakaii J Tradit Complement Med. 2012 Jul;2(3):220-6.

Inhibitors · Natural Compounds · Compound Libraries

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