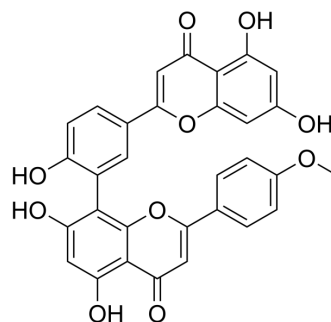


Podocarpusflavone A

Cat. No.:	HY-N2198
CAS No.:	22136-74-9
Molecular Formula:	C ₃₁ H ₂₀ O ₁₀
Molecular Weight:	552.48
Target:	Topoisomerase; Apoptosis
Pathway:	Cell Cycle/DNA Damage; Apoptosis
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 50 mg/mL (90.50 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent	Mass	1 mg	5 mg	10 mg
		Concentration				
		1 mM		1.8100 mL	9.0501 mL	18.1002 mL
		5 mM		0.3620 mL	1.8100 mL	3.6200 mL
10 mM		0.1810 mL	0.9050 mL	1.8100 mL		
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 1.25 mg/mL (2.26 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	Podocarpusflavone A is a DNA topoisomerase I inhibitor. Podocarpusflavone A has moderated anti-proliferative activity and induces cell apoptosis in MCF-7. Podocarpusflavone A is developing anti-tumor agents ^[1] .
IC₅₀ & Target	Topoisomerase I 119.425 μM (IC ₅₀)

REFERENCES

[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.

Caution: Product has not been fully validated for medical applications. For research use only.

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