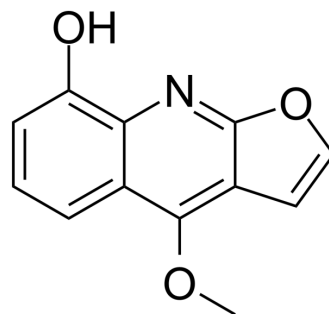


Robustine

Cat. No.:	HY-N1343
CAS No.:	2255-50-7
Molecular Formula:	C ₁₂ H ₉ NO ₃
Molecular Weight:	215.2
Target:	Phosphodiesterase (PDE)
Pathway:	Metabolic Enzyme/Protease
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (464.68 mM; Need ultrasonic)				
		Solvent Concentration	Mass		
	Preparing Stock Solutions		1 mg	5 mg	10 mg
		1 mM	4.6468 mL	23.2342 mL	46.4684 mL
		5 mM	0.9294 mL	4.6468 mL	9.2937 mL
	10 mM	0.4647 mL	2.3234 mL	4.6468 mL	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (11.62 mM); Clear solution				
	2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (11.62 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	Robustine, a furoquinoline alkaloid, from <i>Dictamnus albus</i> , exhibits inhibitory potency against human phosphodiesterase 5 (hPDE5A) in vitro ^[1] .
IC ₅₀ & Target	PDE5A

REFERENCES

[1]. Nam KW, et al. Inhibitory effects of furoquinoline alkaloids from *Melicope confusa* and *Dictamnus albus* against human phosphodiesterase 5 (hPDE5A) in vitro. Arch Pharm Res. 2005 Jun;28(6):675-9.

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

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