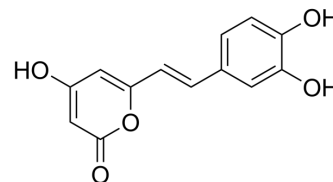


Hispidin

Cat. No.:	HY-100618
CAS No.:	555-55-5
Molecular Formula:	C ₁₃ H ₁₀ O ₅
Molecular Weight:	246.22
Target:	PKC; Endogenous Metabolite
Pathway:	Epigenetics; TGF-beta/Smad; 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 : 19.23 mg/mL (78.10 mM; Need ultrasonic)				
		Solvent Concentration	Mass		
	Preparing Stock Solutions		1 mg	5 mg	10 mg
		1 mM	4.0614 mL	20.3070 mL	40.6141 mL
		5 mM	0.8123 mL	4.0614 mL	8.1228 mL
	10 mM	0.4061 mL	2.0307 mL	4.0614 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: ≥ 1.92 mg/mL (7.80 mM); Clear solution				
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 1.92 mg/mL (7.80 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	Hispidin, a PKC inhibitor and a phenolic compound from <i>Phellinus linteus</i> , has been shown to possess strong anti-oxidant, anti-cancer, anti-diabetic, and anti-dementia properties ^[1] .
IC ₅₀ & Target	Microbial Metabolite

REFERENCES

[1]. Kim DE, et al. The protective effect of hispidin against hydrogen peroxide-induced apoptosis in H9c2 cardiomyoblast cells through Akt/GSK-3β and ERK1/2 signaling pathway. *Exp Cell Res.* 2014 Oct 1;327(2):264-75.

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

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