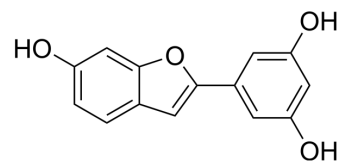


Moracin M

Cat. No.:	HY-122942
CAS No.:	56317-21-6
Molecular Formula:	C ₁₄ H ₁₀ O ₄
Molecular Weight:	242.23
Target:	Phosphodiesterase (PDE); Endogenous Metabolite
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 : 16.67 mg/mL (68.82 mM; Need ultrasonic)				
		Solvent Concentration	Mass		
	Preparing Stock Solutions		1 mg	5 mg	10 mg
		1 mM	4.1283 mL	20.6415 mL	41.2831 mL
		5 mM	0.8257 mL	4.1283 mL	8.2566 mL
	10 mM	0.4128 mL	2.0642 mL	4.1283 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: ≥ 1.67 mg/mL (6.89 mM); Clear solution				
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 1.67 mg/mL (6.89 mM); Clear solution				
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 1.67 mg/mL (6.89 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	Moracin M, a phenolic component in the skin of <i>Morus alba</i> Linn., is a potent phosphodiesterase-4 (PDE4) inhibitor with IC ₅₀ values of 2.9, 4.5, >40, and >100 μM for PDE4D2, PDE4B2, PDE5A1, and PDE9A2, respectively. Moracin M has anti-inflammatory activity ^[1] .			
IC ₅₀ & Target	PDE4D2 2.9 μM (IC ₅₀)	PDE4B2 4.5 μM (IC ₅₀)	PDE5A1 >40 μM (IC ₅₀)	PDE9A2 >100 μM (IC ₅₀)

REFERENCES

[1]. Chen SK, et al. Moracin M from Morus alba L. is a natural phosphodiesterase-4 inhibitor. Bioorg Med Chem Lett. 2012 May 1;22(9):3261-4.

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

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