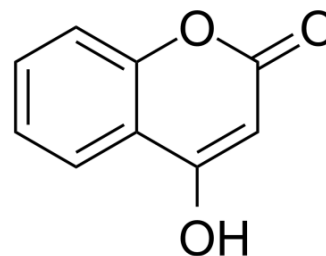


4-Hydroxycoumarin

Cat. No.:	HY-N6856		
CAS No.:	1076-38-6		
Molecular Formula:	C ₉ H ₆ O ₃		
Molecular Weight:	162.14		
Target:	Bacterial; Endogenous Metabolite		
Pathway:	Anti-infection; Metabolic Enzyme/Protease		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 250 mg/mL (1541.88 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
	1 mM		6.1675 mL	30.8375 mL	61.6751 mL
5 mM		1.2335 mL	6.1675 mL	12.3350 mL	
10 mM		0.6168 mL	3.0838 mL	6.1675 mL	

Please refer to the solubility information to select the appropriate solvent.

In Vivo

- Add each solvent one by one: **10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline**
Solubility: ≥ 2.08 mg/mL (12.83 mM); Clear solution
- Add each solvent one by one: **10% DMSO >> 90% (20% SBE-β-CD in saline)**
Solubility: ≥ 2.08 mg/mL (12.83 mM); Clear solution
- Add each solvent one by one: **10% DMSO >> 90% corn oil**
Solubility: ≥ 2.08 mg/mL (12.83 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

4-Hydroxycoumarin, a coumarin derivative, is one of the most versatile heterocyclic scaffolds and is frequently applied in the synthesis of various organic compounds. 4-Hydroxycoumarin possesses both electrophilic and nucleophilic properties. 4-Hydroxycoumarin derivatives are employed as the anticoagulant, antibacterial, antifungal, antiviral, antitumor, antiprotozoal, insecticidal, antimycobacterial, antimutagenic, antioxidant, anti-inflammatory agents, HIV protease inhibitors and tyrosine kinase inhibitors^[1].

IC₅₀ & TargetHuman Endogenous Metabolite
(□□□□)

REFERENCES

[1]. Mohammadi Ziarani G, et al. The molecular diversity scope of 4-hydroxycoumarin in the synthesis of heterocyclic compounds via multicomponent reactions. Mol Divers. 2019 Jan 29. doi: 10.1007/s11030-019-09918-7.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA