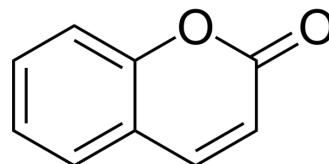


Coumarin

Cat. No.:	HY-N0709		
CAS No.:	91-64-5		
Molecular Formula:	C ₉ H ₆ O ₂		
Molecular Weight:	146.14		
Target:	Influenza Virus		
Pathway:	Anti-infection		
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 : ≥ 100 mg/mL (684.28 mM)
 H₂O : 4 mg/mL (27.37 mM; Need ultrasonic)
 * "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
	1 mM		6.8428 mL	34.2138 mL	68.4275 mL
	5 mM		1.3686 mL	6.8428 mL	13.6855 mL
	10 mM		0.6843 mL	3.4214 mL	6.8428 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: ≥ 3 mg/mL (20.53 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 3 mg/mL (20.53 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 3 mg/mL (20.53 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Coumarin is the primary bioactive ingredient in Radix Glehniae, named Beishashen in China, which possesses many pharmacological activities, including anticancer, anti-inflammation and antivirus activities.

REFERENCES

[1]. Liu M, et al. Quantitative analysis of nine coumarins in rat urine and bile after oral administration of Radix Glehniae extract by high-performance liquid chromatography-electrospray ionization tandem mass spectrometry. Biomed Chromatogr. 2011 Jul;25(7):783-93.

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

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