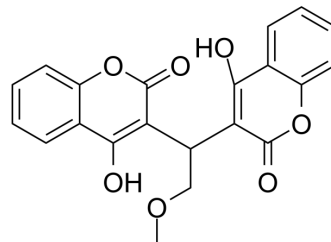


Coumetarol

Cat. No.:	HY-U00017		
CAS No.:	4366-18-1		
Molecular Formula:	C ₂₁ H ₁₆ O ₇		
Molecular Weight:	380.35		
Target:	Others		
Pathway:	Others		
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 (657.29 mM; Need ultrasonic)

Concentration	Solvent	Mass	1 mg	5 mg	10 mg
			1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM		2.6292 mL	13.1458 mL	26.2916 mL
	5 mM		0.5258 mL	2.6292 mL	5.2583 mL
	10 mM		0.2629 mL	1.3146 mL	2.6292 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 (5.47 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.08 mg/mL (5.47 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.08 mg/mL (5.47 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Coumetarol (Dicumoxane) is a vitamin K antagonist.

IC₅₀ & Target

vitamin K^[1]

In Vitro

Coumetarol (Dicumoxane), an oral anticoagulant, is active in both models. The vitamin K antagonist Coumetarol is effective in both models after oral treatment but inhibits the thrombus formation more strongly in the arterio-venous shunt model. Treatment with the vitamin K antagonist Coumetarol in a dose of 25 mg/kg p.o. twice daily for 2 days results in a significant

reduction in thrombus weight by 50% in the venous stasis model and by 75% in the arterio-venous shunt model. In both experiments the coagulation time as measured by the Thrombotest is prolonged to the same extent^[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Vogel GM, et al. Comparison of two experimental thrombosis models in rats effects of four glycosaminoglycans. Thromb Res. 1989 Jun 1;54(5):399-410.

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