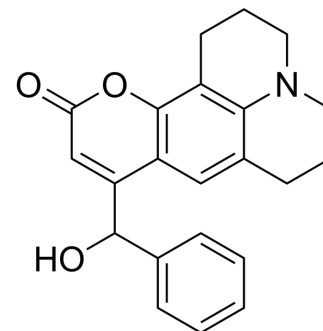


Cumberol

Cat. No.:	HY-D1342		
CAS No.:	878019-53-5		
Molecular Formula:	C ₂₂ H ₂₁ NO ₃		
Molecular Weight:	347.41		
Target:	Fluorescent Dye		
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 : 50 mg/mL (143.92 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.8784 mL	14.3922 mL	28.7844 mL
	5 mM	0.5757 mL	2.8784 mL	5.7569 mL
	10 mM	0.2878 mL	1.4392 mL	2.8784 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: 2.5 mg/mL (7.20 mM); Suspended solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: 2.5 mg/mL (7.20 mM); Suspended solution; Need ultrasonic

BIOLOGICAL ACTIVITY

Description

Cumberol is a fluorescent substrate of AKR1C3 protein. Cumberol can be used for the research of AKR1C3^[1].

REFERENCES

- [1]. Jamieson SM, et al. A novel fluorometric assay for aldo-keto reductase 1C3 predicts metabolic activation of the nitrogen mustard prodrug PR-104A in human leukaemia cells. *Biochem Pharmacol.* 2014;88(1):36-45.

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