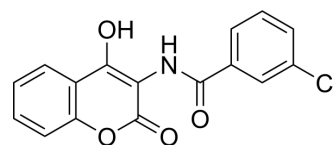


Anticancer agent 93

Cat. No.:	HY-152084		
CAS No.:	94205-22-8		
Molecular Formula:	C ₁₆ H ₁₀ ClNO ₄		
Molecular Weight:	315.71		
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 : 100 mg/mL (316.75 mM; ultrasonic and warming and heat to 80°C)					
	Preparing Stock Solutions	<div><div>Solvent</div><div>Concentration</div></div>	Mass	1 mg	5 mg	10 mg
		1 mM	3.1675 mL	15.8373 mL	31.6746 mL	
		5 mM	0.6335 mL	3.1675 mL	6.3349 mL	
	10 mM	0.3167 mL	1.5837 mL	3.1675 mL		
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: 2.5 mg/mL (7.92 mM); Clear solution; Need ultrasonic					

BIOLOGICAL ACTIVITY

Description	Anticancer agent 93 is a 4-Hydroxycoumarin derivative. Anticancer agent 93 can inhibit invasion and migration of lung cancer cells by modulating expression of epithelial-mesenchymal transition (EMT) effectors ^[1] .	
In Vitro	Anticancer agent 93 (compound 4h) (5-15 μM; 24 h) significantly inhibits A549 cell invasion by ~ 50% ^[1] .	
	Anticancer agent 93 (15 μM; 24-72 h) significantly inhibits A549 cell migration ^[1] .	
	Anticancer agent 93 (5-15 μM; 4 h) inhibits lung cancer cell motility by downregulating EMT markers ^[1] .	
	MCE has not independently confirmed the accuracy of these methods. They are for reference only.	
	Western Blot Analysis ^[1]	
	Cell Line:	A549 cells
	Concentration:	5, 10, 15 μM

Incubation Time:	24 hours
Result:	Decreased expression of N-cadherin and E-cadherin.

REFERENCES

[1]. Zhou R, et, al. Synthesis of coumarin derivatives and investigation of their inhibitory effects on lung cancer cell motility. Sci Rep. 2022 Dec 14;12(1):21635.

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

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