MY-1442

Cat. No.:	HY-162089				
Molecular Formula:	C ₁₉ H ₁₇ NO ₃				
Molecular Weight:	307.34				
Target:	Microtubule/Tubulin; Apoptosis				
Pathway:	Cell Cycle/DNA Damage; Cytoskeleton; Apoptosis				
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/m Preparing Stock Solutions	DMSO : 100 mg/mL (325.37 mM; ultrasonic and warming and heat to 80°C)						
	Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg		
		1 mM	3.2537 mL	16.2686 mL	32.5373 mL		
		5 mM	0.6507 mL	3.2537 mL	6.5075 mL		
		10 mM	0.3254 mL	1.6269 mL	3.2537 mL		
	Please refer to the sol	ubility information to select the ap	propriate solvent.				
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: 5 mg/mL (16.27 mM); Clear solution; Need ultrasonic						
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 5 mg/mL (16.27 mM); Clear solution; Need ultrasonic						
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: 5 mg/mL (16.27 mM); Clear solution; Need ultrasonic						

OGICAL ACTIV	ТТҮ
Description	MY-1442 (I-3) is a microtubulin polymerization inhibitor. MY-875 inhibits tubulin polymerization by targeting colchicine binding sites. MY-1442 has anticancer activity. MY-1442 can induce apoptosis of MGC-803 cells and inhibit cell migration ^[1] .

REFERENCES

[1]. Tian XY, et al. Discovery of novel coumarin-based derivatives as inhibitors of tubulin polymerization targeting the colchicine binding site with potent anti-gastric cancer activities. Eur J Med Chem. 2023 Dec 22;265:116079.

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Inhibitors

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Product Data Sheet



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