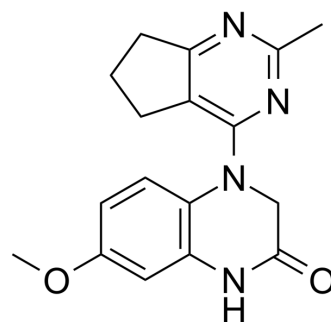


SB-216

Cat. No.:	HY-144898		
CAS No.:	2756818-39-8		
Molecular Formula:	C ₁₇ H ₁₈ N ₄ O ₂		
Molecular Weight:	310.35		
Target:	Microtubule/Tubulin		
Pathway:	Cell Cycle/DNA Damage; Cytoskeleton		
Storage:	Powder	-20°C	3 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 62.5 mg/mL (201.39 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent	Mass	1 mg	5 mg	10 mg
		Concentration				
		1 mM		3.2222 mL	16.1108 mL	32.2217 mL
		5 mM		0.6444 mL	3.2222 mL	6.4443 mL
	10 mM		0.3222 mL	1.6111 mL	3.2222 mL	
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.08 mg/mL (6.70 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (6.70 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (6.70 mM); Clear solution 					

BIOLOGICAL ACTIVITY

Description	SB-216 is a potent tubulin polymerization inhibitor. SB-216 shows strong antiproliferative potency in a panel of human cancer cell lines, including melanoma, lung cancer, and breast cancer. SB-216 can be used for cancer research ^[1] .
IC₅₀ & Target	IC ₅₀ : tubulin polymerization ^[1]

REFERENCES

[1]. Souvik Banerjee, et al. X-ray Crystallography-Guided Design, Antitumor Efficacy, and QSAR Analysis of Metabolically Stable Cyclopenta-Pyrimidinyl Dihydroquinoxalinone as a Potent Tubulin Polymerization Inhibitor. J Med Chem. 2021 Sep 9;64(17):13072-13095.

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

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