

SB-216

Chemical Properties

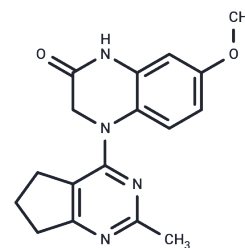
CAS No. : 2756818-39-8

Formula: C₁₇H₁₈N₄O₂

Molecular Weight: 310.35

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	SB-216 is able to be used for the research of cancer which is a potent inhibitor of tubulin polymerization. SB-216 exhibits strong antiproliferative potency in a panel of human cancer cell lines, including melanoma, breast cancer, and lung cancer [1].
Targets(IC50)	Apoptosis, Microtubule Associated
In vitro	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].

Solubility Information

Solubility	DMSO: 58.5 mg/mL (188.5 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (6.44 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
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
50 mM	0.0644 mL	0.3222 mL	0.6444 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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