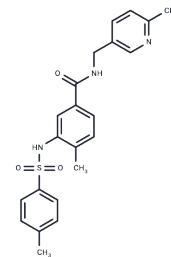


Tubulin inhibitor 11

Chemical Properties

CAS No. :	2366260-33-3
Formula:	C ₂₂ H ₂₃ N ₃ O ₃ S
Molecular Weight:	409.5
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	Tubulin Inhibitor 11 is a potent, orally active agent that inhibits tubulin by targeting the Colchicine binding site. It impedes tubulin polymerization, leading to mitotic blockade and apoptosis.
Targets(IC50)	Apoptosis, Microtubule Associated

Solubility Information

Solubility	DMSO: 90 mg/mL (219.78 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: 3.3 mg/mL (8.06 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	2.442 mL	12.210 mL	24.420 mL
5 mM	0.4884 mL	2.442 mL	4.884 mL
10 mM	0.2442 mL	1.221 mL	2.442 mL
50 mM	0.0488 mL	0.2442 mL	0.4884 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

Lin S, et al. Optimization of Benzamide Derivatives as Potent and Orally Active Tubulin Inhibitors Targeting the Colchicine Binding Site. J Med Chem. 2022;65(24):16372-16391.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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