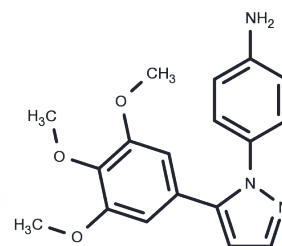


Tubulin inhibitor 32

Chemical Properties

CAS No. :	2923531-39-7
Formula:	C ₁₈ H ₁₉ N ₃ O ₃
Molecular Weight:	325.36
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 32 is an orally active novel microtubule inhibitor with antiproliferative and antitumor activity, inhibits microtubule polymerization, induces apoptosis and cell cycle arrest in G2/M phase.
Targets(IC50)	Apoptosis, Microtubule Associated
In vitro	In HepG2, SW480, Hela, and MDA-MB-231 cells, Tubulin inhibitor 32 (0-64 μM; 48 hours) exhibited anti-proliferative activity, with IC50 values of 1.54, 37.53, 24.61, and 11.41 μM, respectively[1].
In vivo	In 4-6 weeks old male nude mice (HCT-116 tumor model), Tubulin inhibitor 32 (50, 100 mg/kg; oral administration; once daily for 20 days) decreased the tumor volume and tumor weight by 44.1% and 27.0%, respectively[1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.0735 mL	15.3676 mL	30.7352 mL
5 mM	0.6147 mL	3.0735 mL	6.147 mL
10 mM	0.3074 mL	1.5368 mL	3.0735 mL
50 mM	0.0615 mL	0.3074 mL	0.6147 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

Li G, et al. Design, synthesis, and biological evaluation of diaryl heterocyclic derivatives targeting tubulin polymerization with potent anticancer activities. Eur J Med Chem. 2023 Apr 5;252:115284.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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