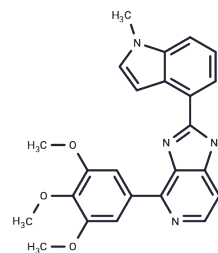


## Tubulin inhibitor 33

## Chemical Properties

CAS No. :	2944462-67-1
Formula:	C <sub>24</sub> H <sub>22</sub> N <sub>4</sub> O <sub>3</sub>
Molecular Weight:	414.46
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 33 is a dose-dependent inhibitor of tubulin polymerization, exhibiting an IC <sub>50</sub> value of 9.05 μM. This compound demonstrates antitumor activity and induces apoptosis, making it useful for antitumor research [1].
Targets(IC <sub>50</sub> )	Apoptosis,Others,Microtubule Associated
In vitro	Tubulin inhibitor 33 (Compound 3a) at 0-5 nM concentrations over 24-48 hours inhibits proliferation, migration, and colony formation in HepG-2 tumor cells, while inducing G2/M cell cycle arrest and apoptosis [1].
In vivo	Tubulin inhibitor 33 (Compound 3a), administered intraperitoneally at a dose of 5 mg/kg daily for a duration of 14 days, significantly inhibited melanoma tumor growth with a Tumor Growth Inhibition (TGI) of 62.96% [1].

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.4128 mL	12.0639 mL	24.1278 mL
5 mM	0.4826 mL	2.4128 mL	4.8256 mL
10 mM	0.2413 mL	1.2064 mL	2.4128 mL
50 mM	0.0483 mL	0.2413 mL	0.4826 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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