

## Tubulin inhibitor 17

## Chemical Properties

CAS No. :

Formula: C<sub>17</sub>H<sub>16</sub>N<sub>2</sub>O

Molecular Weight: 264.32

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 17 (Compound 3b) is an inhibitor of tubulin polymerization (IC <sub>50</sub> = 12.38 μM) that exhibits anticancer activities and induces cell apoptosis[1].
Targets(IC <sub>50</sub> )	Apoptosis,Others,Microtubule Associated
In vitro	Tubulin inhibitor 17 (Compound 3b) exhibits antiproliferative activities against various cancer cell lines and inhibits colony formation of HepG-2 cells within 0-10 μM concentrations over 0-72 hours [1]. It concentration-dependently inhibits tubulin polymerization at 0-2.5 μM and induces microtubule network collapse dose-dependently at 0-1 μM over 12 hours [1]. At 0-5 μM over 24 hours, Tubulin inhibitor 17 induces G <sub>2</sub> /M phase cell cycle arrest and inhibits HepG-2 cell migration, while at the same concentration over 48 hours, it induces apoptosis in HepG-2 cells [1]. In cell proliferation assays, it demonstrated antiproliferative activities with IC <sub>50</sub> values of 0.563 ± 0.099, 0.261 ± 0.025, 2.047 ± 0.168, and 0.609 ± 0.062 μM against B16-F10, HepG-2, HeLa, and MCF-7 cells, respectively, and also inhibited cell viability in a concentration- and time-dependent manner [1]. Cell cycle analysis on HepG-2 cells indicated dose-dependent G <sub>2</sub> /M phase arrest at 0.5, 1.0, and 5.0 μM over 24 hours [1], and apoptosis analysis indicated a significant increase in apoptotic cells at similar concentrations over 48 hours compared to control [1].

### Preparing Stock Solutions

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	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	3.7833 mL	18.9165 mL	37.8329 mL
5 mM	0.7567 mL	3.7833 mL	7.5666 mL
10 mM	0.3783 mL	1.8916 mL	3.7833 mL
50 mM	0.0757 mL	0.3783 mL	0.7567 mL

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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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