

## Tubulin polymerization-IN-46

## Chemical Properties

CAS No. :

Formula: C<sub>22</sub>H<sub>25</sub>N<sub>6</sub>O<sub>6</sub>

Molecular Weight: 399.44

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 polymerization-IN-46 (compound 9q) is a microtubule/tubulin inhibitor that obstructs tubulin polymerization, triggers apoptosis, and arrests MCF-7 breast cancer cells in the G2/M phase, demonstrating potent anti-proliferative activity with an IC <sub>50</sub> of 10 nM [1].
Targets(IC <sub>50</sub> )	Others, Microtubule Associated
In vitro	Tubulin polymerization inhibitor 46 (compound 9q) at a concentration of 0.5 μM and an incubation time of 16 hours can induce microtubule network disassembly in MCF-7 breast cancer cells [1].

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.5035 mL	12.5175 mL	25.035 mL
5 mM	0.5007 mL	2.5035 mL	5.007 mL
10 mM	0.2504 mL	1.2518 mL	2.5035 mL
50 mM	0.0501 mL	0.2504 mL	0.5007 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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