

## Tubulin polymerization-IN-55

## Chemical Properties

CAS No. : 2942396-29-2

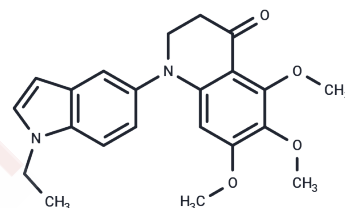
Formula: C<sub>22</sub>H<sub>24</sub>N<sub>2</sub>O<sub>4</sub>

Molecular Weight: 380.44

Store at low temperature

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-55 is a potent Tubulin Polymerization inhibitor with potential anti-angiogenic and anti-tumor activity, demonstrating anti-proliferative effects against A549, K562, HepG2, MDA-MB-231, and HFL-1.
Targets(IC50)	Microtubule Associated

## Solubility Information

Solubility	DMSO: 80 mg/mL (210.28 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 (8.67 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	2.6285 mL	13.1427 mL	26.2854 mL
5 mM	0.5257 mL	2.6285 mL	5.2571 mL
10 mM	0.2629 mL	1.3143 mL	2.6285 mL
50 mM	0.0526 mL	0.2629 mL	0.5257 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

Tan Y, et al. Design, synthesis and biological evaluation of novel dihydroquinolin-4(1H)-one derivatives as novel tubulin polymerization inhibitors. Eur J Med Chem. 2023 Oct 15;262:115881.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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