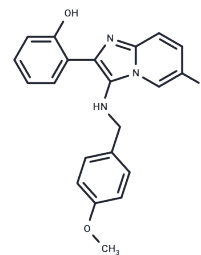


MT189

## Chemical Properties

CAS No. : 1885900-35-5  
 Formula: C<sub>21</sub>H<sub>18</sub>FN<sub>3</sub>O<sub>2</sub>  
 Molecular Weight: 363.38  
 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	MT189 (Antiproliferative agent-14) is a potent tubulin polymerization inhibitor, with an IC <sub>50</sub> of 3.41 μM. Antiproliferative agent-14 has excellent antiproliferative activity. Antiproliferative agent-14 possess the ability to arrest cells at G <sub>2</sub> /M phases of the cell cycle.
Targets(IC <sub>50</sub> )	Microtubule Associated
In vitro	MT189 shows antiproliferative activity against HeLa cell (IC <sub>50</sub> =13 nM). Antiproliferative agent-14 shows inhibition of colchicine binding activity, with 72.2% inhibitory percentage[1].

## Solubility Information

Solubility	DMSO: 90 mg/mL (247.67 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.7519 mL	13.7597 mL	27.5194 mL
5 mM	0.5504 mL	2.7519 mL	5.5039 mL
10 mM	0.2752 mL	1.376 mL	2.7519 mL
50 mM	0.055 mL	0.2752 mL	0.5504 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

An W, et al. Discovery of novel 2-phenyl-imidazo[1,2-a]pyridine analogues targeting tubulin polymerization as antiproliferative agents. Eur J Med Chem. 2016 Apr 13;112:367-372.

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

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