

M3541

## Chemical Properties

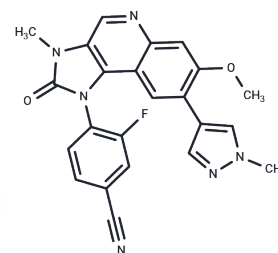
CAS No. : 1360628-91-6

Formula: C<sub>23</sub>H<sub>17</sub>FN<sub>6</sub>O<sub>2</sub>

Molecular Weight: 428.42

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	M3541 is a selectively potent and orally active ATM inhibitor with potential antitumor activity. M-3541 inhibits ATM kinase activity and ATM-mediated signaling by binding to ATM. M3541 prevents activation of DNA damage checkpoints, inhibits DNA damage repair, contributes to apoptosis, and induces death of ATM overexpressing tumor cells.
Targets(IC50)	Apoptosis, ATM/ATR

## Solubility Information

Solubility	DMSO: 2.14 mg/mL (5 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	2.3342 mL	11.6708 mL	23.3416 mL
5 mM	0.4668 mL	2.3342 mL	4.6683 mL
10 mM	0.2334 mL	1.1671 mL	2.3342 mL
50 mM	0.0467 mL	0.2334 mL	0.4668 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

Waqar SN, et al. Phase I trial of ATM inhibitor M3541 in combination with palliative radiotherapy in patients with solid tumors. Invest New Drugs. 2022 Jun;40(3):596-605.

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

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