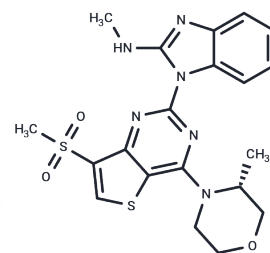


## ATR-IN-23

## Chemical Properties

CAS No. :	2923800-62-6
Formula:	C <sub>20</sub> H <sub>22</sub> N <sub>6</sub> O <sub>3</sub> S <sub>2</sub>
Molecular Weight:	458.56
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	ATR-IN-23 (Compound 34), a potent and selective ATR inhibitor, exhibits an IC <sub>50</sub> of 1.5 nM, has demonstrated antiproliferative effects on LoVo cells, and induces synthetic lethality in HT-29 cells, suggesting its utility in researching DNA damage response (DDR)-deficient cancers [1].
Targets(IC <sub>50</sub> )	ATM/ATR
In vitro	ATR-IN-23 exhibits significant inhibition of ATR with an IC <sub>50</sub> value of 1.5 nM and demonstrates potent antiproliferative activity against LoVo cells, with an IC <sub>50</sub> of 0.073 μM [1]. In HT-29 cells, ATR-IN-23 shows moderate antiproliferative efficacy with an IC <sub>50</sub> of 0.161 μM [1].
In vivo	ATR-IN-23 exhibits acute toxicity at a maximum concentration of 2000 mg/kg, demonstrating moderate safety in ICR mice [1]. When administered at 50 mg/kg either once or twice daily via oral route for 21 days, ATR-IN-23 shows moderate antitumor efficacy in BALB/c nude mice [1].

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.1807 mL	10.9037 mL	21.8074 mL
5 mM	0.4361 mL	2.1807 mL	4.3615 mL
10 mM	0.2181 mL	1.0904 mL	2.1807 mL
50 mM	0.0436 mL	0.2181 mL	0.4361 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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