

## ATM Inhibitor-8

## Chemical Properties

CAS No. :

Formula: C<sub>26</sub>H<sub>34</sub>N<sub>6</sub>O<sub>2</sub>

Molecular Weight: 462.59

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	ATM Inhibitor-8 (Compound 10r) is a potent, selective, and orally active ATM inhibitor with anti-tumor activity, characterized by an IC <sub>50</sub> value of 1.15 nM [1].
Targets(IC <sub>50</sub> )	ATM/ATR
In vitro	ATM Inhibitor-8 exhibits inhibitory activity against colorectal cancer cells (HCT116, SW620) and breast cancer cells (MCF-7) [1]. When combined with 4.22 μM Etoposide and 0.036 μM Irinotecan at a concentration of 200 nM, ATM Inhibitor-8 significantly reduces the viability of MCF-7 cells [1]. Additionally, at the same concentration, ATM Inhibitor-8 in conjunction with 0.22 μM Irinotecan decreases SW620 cell viability and inhibits clonal formation of SW620 cells at 0.02 μM [1].
In vivo	ATM Inhibitor-8, when combined with Irinotecan (40 mg/kg), demonstrates a potent suppressive effect on tumor growth in the SW620 mouse model [1]. Moreover, ATM Inhibitor-8 (10 mg/kg, i.v.) exhibits favorable pharmacokinetic (PK) properties in Balb/c mice, as evidenced by its low plasma clearance, high plasma exposure, and excellent oral bioavailability [1].

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.1617 mL	10.8087 mL	21.6174 mL
5 mM	0.4323 mL	2.1617 mL	4.3235 mL
10 mM	0.2162 mL	1.0809 mL	2.1617 mL
50 mM	0.0432 mL	0.2162 mL	0.4323 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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