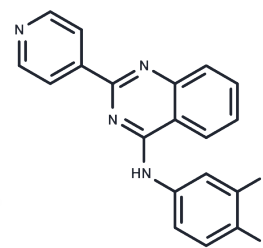


ML367

## Chemical Properties

CAS No. : 381168-77-0  
 Formula: C<sub>19</sub>H<sub>12</sub>F<sub>2</sub>N<sub>4</sub>  
 Molecular Weight: 334.32  
 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	ML367 is a potent inhibitor of ATPase family AAA domain-containing protein 5 (ATAD5) stabilization and serves as a probe molecule with low micromolar inhibitory activity.
Targets(IC50)	Others,Epigenetic Reader Domain,Chk
In vitro	ML367, a probe molecule that has low micromolar inhibitory activity in the ATAD5 destabilizer screen run with 10 μM 5-fluorouridine (5-FUrd) as the DNA damaging agent. Interestingly, ML367 was found to block general DNA damage responses including RPA32-phosphorylation and CHK1-phosphorylation in response to UV irradiation. In this regard, the probe molecule could block DNA repair pathways that function upstream of ATAD5.

## Solubility Information

Solubility	DMSO: 120 mg/mL (358.94 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: 4 mg/mL (11.96 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

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	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	2.9911 mL	14.9557 mL	29.9115 mL
5 mM	0.5982 mL	2.9911 mL	5.9823 mL
10 mM	0.2991 mL	1.4956 mL	2.9911 mL
50 mM	0.0598 mL	0.2991 mL	0.5982 mL

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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

Rohde JM, et al. Discovery of ML367, inhibitor of ATAD5 stabilization. Probe Reports from the NIH Molecular Libraries Program.

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

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