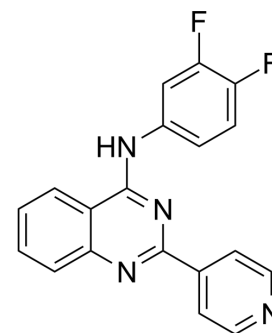


ML367

Cat. No.:	HY-122198
CAS No.:	381168-77-0
Molecular Formula:	C ₁₉ H ₁₂ F ₂ N ₄
Molecular Weight:	334.32
Target:	Others
Pathway:	Others
Storage:	<div> <div>Powder</div> <div>-20°C</div> <div>3 years</div> </div> <div> <div></div> <div>4°C</div> <div>2 years</div> </div> <div> <div>In solvent</div> <div>-80°C</div> <div>2 years</div> </div> <div> <div></div> <div>-20°C</div> <div>1 year</div> </div>



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 125 mg/mL (373.89 mM)
 * "≥" means soluble, but saturation unknown.

	Solvent Concentration	Mass	1 mg	5 mg	10 mg
Preparing Stock Solutions	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

Please refer to the solubility information to select the appropriate solvent.

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 2.08 mg/mL (6.22 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: 2.08 mg/mL (6.22 mM); Suspended solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.08 mg/mL (6.22 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

ML367 is a potent inhibitor of ATPase family AAA domain-containing protein 5 (ATAD5) stabilization, acts as a probe molecule that has low micromolar inhibitory activity. ML367 blocks DNA repair pathways, suppresses general DNA damage responses including RPA32-phosphorylation and CHK1-phosphorylation in response to UV irradiation^[1].

IC₅₀ & Target

ATAD5^[1]

In Vitro

ML367 (0-40 μ M, 16 hours) inhibits FLAG-ATAD5 stabilization in HEK293T cells in the presence or absence of 20 μ M 5-FUrd^[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Western Blot Analysis^[1]

Cell Line:	HEK293T cells
Concentration:	0-40 μ M in the presence or absence of 20 μ M 5-FUrd
Incubation Time:	16 hours
Result:	Inhibited the increased ATAD5 protein levels induced by 5-FUrd.

REFERENCES

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

Caution: Product has not been fully validated for medical applications. For research use only.

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