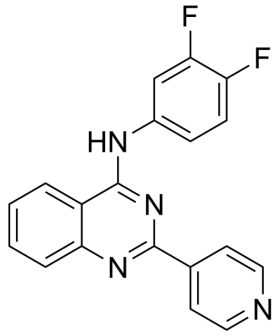
ML367

Cat. No.:	HY-122198
CAS No.:	381168-77-0
Molecular Formula:	$C_{19}H_{12}F_2N_4$
Molecular Weight:	334.32
Target:	Checkpoint Kinase (Chk)
Pathway:	Cell Cycle/DNA Damage
Storage:	Powder -20°C 3 years 4°C 2 years In solvent -80°C 2 years -20°C 1 year



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 125 mg/mL (373.89 mM)

* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
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

1. 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
2. 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
3. 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].

IC_{50} & Target

ATAD5[1]

In Vitro

ML367 (0-40 μM, 16 hours) inhibits FLAG-ATAD5 stabilization in HEK293T cells in the presence or absence of 20 μM 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 μM in the presence or absence of 20 μM 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.

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