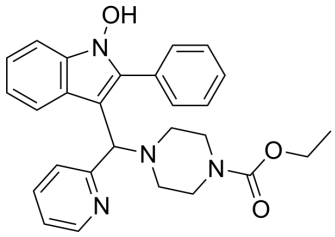
PIP-199

Cat. No.:	HY-124325
CAS No.:	622795-76-0
Molecular Formula:	$C_{27}H_{28}N_4O_3$
Molecular Weight:	456.54
Target:	DNA Alkylator/Crosslinker
Pathway:	Cell Cycle/DNA Damage
Storage:	Powder -20°C 3 years 4°C 2 years In solvent -80°C 6 months -20°C 1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 41.67 mg/mL (91.27 mM; ultrasonic and warming and heat to 80°C)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.1904 mL	10.9519 mL	21.9039 mL
	5 mM	0.4381 mL	2.1904 mL	4.3808 mL
	10 mM	0.2190 mL	1.0952 mL	2.1904 mL

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

BIOLOGICAL ACTIVITY

Description

PIP-199 is a selective inhibitor of RMI (RecQ-mediated genome instability protein) core complex/MM2 interaction, with an IC_{50} of 36 μM. PIP-199 can be used for the research of sensitizing resistant tumors to DNA crosslinking chemotherapeutics[1].

IC_{50} & Target

IC50: 36 μM (RMI core complex/MM2 interaction)[1]

In Vitro

MM2 is the binding site of RMI complex on Fanconi anemia complementation group M protein (FANCM)[1].
Induction of the Fanconi anemia (FA) DNA repair pathway is a common mechanism by which tumors evolve resistance to DNA crosslinking chemotherapies[1].
Proper execution of the FA pathway requires interaction between the FANCM and the RMI complex, and mutations that disrupt FANCM/RMI interactions sensitize cells to DNA crosslinking agents[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Andrew F. Voter, et al. A high throughput screening strategy to identify protein-protein interaction inhibitors that block the Fanconi anemia DNA repair pathway. J Biomol Screen. 2016 Jul; 21(6): 626–633.

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