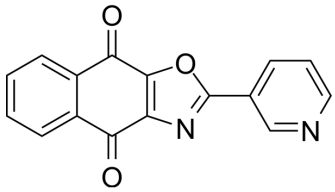
SJB3-019A

Cat. No.:	HY-80012
CAS No.:	2070015-29-9
Molecular Formula:	$C_{16}H_8N_2O_3$
Molecular Weight:	276.25
Target:	Deubiquitinase
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 : 10 mg/mL (36.20 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	3.6199 mL	18.0995 mL	36.1991 mL
	5 mM	0.7240 mL	3.6199 mL	7.2398 mL
	10 mM	0.3620 mL	1.8100 mL	3.6199 mL

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

In Vivo

1. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 1 mg/mL (3.62 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

SJB3-019A is a potent and novel USP1 inhibitor, 5 times more potent than SJB2-043 in promoting ID1 degradation and cytoxicity in K562 cells with IC_{50} of 0.0781 μM.

IC_{50} & Target

IC50: 78.1 nM (ID1)

In Vitro

SJB3-019A (IC_{50}=0.0781 μM) is 5 times more potent than SJB2-043 in promoting ID1 degradation and cytoxicity in K562 cells. SJB3-019A increases the levels of Ub-FANCD2 and Ub-PCNA, and decreases the HR activity[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Blood (2016) 128 (22): 3290.
- Blood. 2015, 126 (23): 1813.
- Mol Cell. 2020 Nov 19;80(4):633-647.e7.
- Sci Adv. 2019 May 8;5(5):eaav3235.
- Cell Chem Biol. 2021 Apr 27;S2451-9456(21)00213-0.

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REFERENCES

[1]. Helena Mistry, et al. Small molecule inhibitors of USP1 target ID1 degradation in leukemic cells. Mol Cancer Ther Published OnlineFirst October 15, 2013.

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