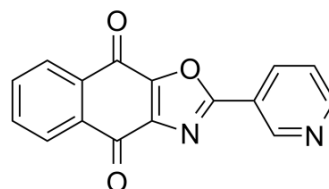


## SJB3-019A

<b>Cat. No.:</b>	HY-80012		
<b>CAS No.:</b>	2070015-29-9		
<b>Molecular Formula:</b>	C <sub>16</sub> H <sub>8</sub> N <sub>2</sub> O <sub>3</sub>		
<b>Molecular Weight:</b>	276.25		
<b>Target:</b>	Deubiquitinase		
<b>Pathway:</b>	Cell Cycle/DNA Damage		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 10 mg/mL (36.20 mM; Need ultrasonic)			
		Solvent Concentration	Mass	
			1 mg	5 mg
			10 mg	
<b>Preparing Stock Solutions</b>	<b>1 mM</b>	3.6199 mL	18.0995 mL	36.1991 mL
	<b>5 mM</b>	0.7240 mL	3.6199 mL	7.2398 mL
	<b>10 mM</b>	0.3620 mL	1.8100 mL	3.6199 mL
Please refer to the solubility information to select the appropriate solvent.				
<b>In Vivo</b>	1. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 1 mg/mL (3.62 mM); Clear solution			

### BIOLOGICAL ACTIVITY

<b>Description</b>	SJB3-019A is a potent and novel USP1 inhibitor, 5 times more potent than SJB2-043 in promoting ID1 degradation and cytotoxicity in K562 cells with IC <sub>50</sub> of 0.0781 μM.
<b>IC<sub>50</sub> &amp; Target</b>	IC <sub>50</sub> : 78.1 nM (ID1)
<b>In Vitro</b>	SJB3-019A (IC <sub>50</sub> =0.0781 μM) is 5 times more potent than SJB2-043 in promoting ID1 degradation and cytotoxicity in K562 cells. SJB3-019A increases the levels of Ub-FANCD2 and Ub-PCNA, and decreases the HR activity <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### CUSTOMER VALIDATION

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- Blood (2016) 128 (22): 3290.
  - Blood. 2015, 126 (23): 1813.
  - Sci Adv. 2019 May 8;5(5):eaav3235.
  - Int J Med Sci. 2021; 18(1): 245-255.
  - Biomedicines. 2020 Jun 4;8(6):E152.

See more customer validations on [www.MedChemExpress.com](http://www.MedChemExpress.com)

## REFERENCES

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA