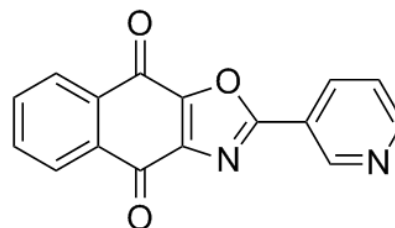


**Product Name** : SJB3-019A  
**Cat. No.** : PC-46007  
**CAS No.** : 2070015-29-9  
**Molecular Formula** : C<sub>16</sub>H<sub>8</sub>N<sub>2</sub>O<sub>3</sub>  
**Molecular Weight** : 276.2463  
**Target** : Deubiquitinase (DUB)  
**Solubility** : 10 mM in DMSO



## Biological Activity

SJB3-019A is a potent ubiquitin-specific protease **USP1** inhibitor with IC<sub>50</sub> of 78.1 nM, 5 times more potent than SJB2-043 in promoting ID1 degradation and cytotoxicity in K562 cells.

SJB3-019A also increases the levels of Ub-FANCD2 and Ub-PCNA, and decreases the HR activity.

SJB3-019A triggers apoptosis in multiple myeloma cells via activation of caspase-3/8/9, degrades USP1 and downstream inhibitor of DNA-binding proteins as well as inhibits DNA repair via blockade of Fanconi anemia pathway and homologous recombination.

SJB3-019A downregulates multiple myeloma stem cell Notch-1, Notch-2, SOX-4, and SOX-2, and induces generation of more mature and differentiated plasma cells.

## References

Mistry H, et al. *Mol Cancer Ther.* 2013 Dec;12(12):2651-62.

Das DS, et al. *Clin Cancer Res.* 2017 Mar 7. doi: 10.1158/1078-0432.CCR-16-2692.

**Caution: Product has not been fully validated for medical applications. Lab Use Only!**

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