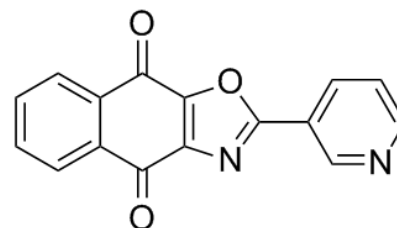


Product Name : SJB3-019A
Cat. No. : PC-46007
CAS No. : 2070015-29-9
Molecular Formula : C₁₆H₈N₂O₃
Molecular Weight : 276.2463
Target : Deubiquitinase (DUB)
Solubility : 10 mM in DMSO



Biological Activity

SJB3-019A is a potent ubiquitin-specific protease **USP1** inhibitor with IC₅₀ 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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