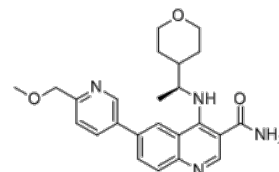


**Product Name** : ATM inhibitor AZ31  
**Cat. No.** : PC-70111  
**CAS No.** : 2088113-98-6  
**Molecular Formula** : C<sub>24</sub>H<sub>28</sub>N<sub>4</sub>O<sub>3</sub>  
**Molecular Weight** : 420.513  
**Target** : ATM/ATR  
**Solubility** : 10 mM in DMSO



## Biological Activity

AZ31 is a potent, highly selective and orally active **ATM** inhibitor with enzyme IC<sub>50</sub> of <1.2 nM, cell IC<sub>50</sub> of 46 nM.

AZ31 displays excellent selectivity against a panel of kinases including ATR, DNAPK, mTOR, PI3K $\alpha$ , PI3K $\beta$ , PI3K $\gamma$ , GSK3 $\beta$  and KDR.

AZ31 reduces upregulation of p21 and blocks G1 arrest in wild-type but not Cdkn1a(p21CIP/WAF1)<sup>-/-</sup> mice.

AZ31 shows significant tumor growth reduction in the SW620 xenograft model combined with irinotecan.

## References

Degorce SL, et al. *J Med Chem.* 2016 Jul 14;59(13):6281-92.

Vendetti FP, et al. *Sci Rep.* 2017 Feb 1;7:41892.

Kiesel BF, et al. *J Pharm Biomed Anal.* 2017 May 10;138:158-165.

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

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