

## **Data Sheet**

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 Product Name
 : ART0380

 Cat. No.
 : PC-21873

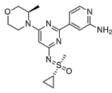
 CAS No.
 : 2267316-76-5

 Molecular Formula
 : C<sub>18</sub>H<sub>24</sub>N<sub>6</sub>O<sub>2</sub>S

 Molecular Weight
 : 388.49

 Target
 : ATM/ATR

**Solubility**: 10 mM in DMSO



CAS: 2267316-76-5

## **Biological Activity**

Alnodesertib (ART0380, ART-0380) is a potent, selective and ATP-competitive **ATR kinase** inhibitor, inhibits ATR-ATRIP complex enzyme activity with IC50 of 51.7 nM, and phospho-Chk1 IC50 of 22 nM in cell western assay.

ART0380 shows no effect on downstream markers of the ATR related enzymes ATM, DNA-PKcs, mTOR, and SMG1 at 3 uM in response to DNA damage induced by etoposide in NCI-H460 cells.

ART0380 induces robust inhibition of cell growth (LoVo, EC50=1 uM; NCI-H23, EC50=0.13 uM), with little to no effect in CCD-18Co normal fibroblasts (EC50=6.4 uM).

ART0380 is effective in vivo in cancers with varying types of ATM, showing modulation of pChk1 Ser345 in tumor xenograft tissues

ART0380 (30 or 50 mg/kg) exhibits tumor growth inhibition in mice bearing ATM LOF Granta-519 xenografts. ART0380 (100 mg/kg) exhibits tumor regression on patient-derived xenograft (PDX) model harboring a deleterious ATM gene variant (p.E473\*), which induced a near total loss of ATM protein.

## References

Pilie PG, et al. *Clin Cancer Res*. 2024 Feb 28.

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

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