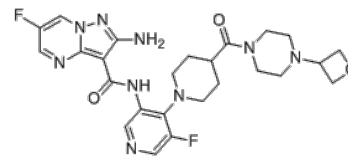


Product Name : M4344
Cat. No. : PC-72163
CAS No. : 1613191-99-3
Molecular Formula : C₂₅H₂₉F₂N₉O₃
Molecular Weight : 541.564
Target : ATM/ATR
Solubility : 10 mM in DMSO (5.4 mg/mL)



Biological Activity

M4344 (VX-803, Gartisertib) is a highly potent, selective **ATR** inhibitor with $K_i < 0.15$ nM.

M4344 (VX-803, Gartisertib) showed minimal inhibitory activity against unrelated kinases, with >100-fold selectivity for ATR over 308/312 kinases tested.

M4344 suppressed cancer cell proliferation at lower concentrations, similarly to BAY1895344 and was more potent than berzosertib (VX-970, M6620), ceralasertib, and VE-821.

M4344 (25 nM) strongly suppressed cell viability of prostate DU145 cancer cells in combination of CPT at nanomolar concentrations, M4344 (10 nM) blocked CPT-induced activation of CHK1, a main downstream effector of ATR.

M4344 kills cancer cells under replication stress (RepStress) and with NE genomic signatures by replication-mediated DNA damage.

M4344 synergizes with clinical TOP1 inhibitor (Exatecan), as well as a broad range of widely used clinical agents including etoposide, gemcitabine, cisplatin, and talazoparib.

M4344 is active in patient-derived tumor organoids and xenograft models.

References

Ukhyun Jo, et al. *Mol Cancer Ther.* 2021 Aug;20(8):1431-1441.

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

E-mail: tech@probechem.com