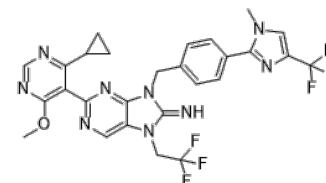


Product Name : TNG348
Cat. No. : PC-24036
CAS No. : 2839740-79-1
Molecular Formula : C₂₇H₂₃F₆N₉O
Molecular Weight : 603.53
Target : Deubiquitinase (DUB)
Solubility : 10 mM in DMSO



CAS: 2839740-79-1

Biological Activity

TNG348 is a potent, a selective, allosteric and reversible **USP1** inhibitor with IC₅₀ of 98.6 nM in AlphaLISA-based measurement of ub-PCNA induction in MDA-MB-436 cells.

TNG348 induces a dose-dependent loss of viability in the BRCA1-mutant MDA-MB-436 cell line with an average IC₅₀ of 68.3 nM, while having no impact on the BRCA1 WT HCC1954 cell line.

TNG348 exhibits high selectivity in a panel of 47 DUBs (Ubiquigent), including USP12 and USP46, as well as against 467 of the 468 kinases tested.

TNG348 is active in BRCA mutant and HRD+ breast and ovarian cancer cells and acts through a distinct mechanism from PARPi.

TNG348 synergizes with PARPi and other DNA-damaging agents in HRD+ and BRCA-mutant cell lines.

TNG348 drives strong antitumor activity in combination with PARPi in HRD+ models and can overcome PARPi resistance.

References

Simoneau A, et al. *Mol Cancer Ther.* 2025 Jan 31. doi: 10.1158/1535-7163.MCT-24-0515.

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

E-mail: tech@probechem.com