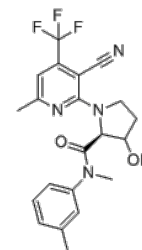


Product Name : ART558
Cat. No. : PC-72020
CAS No. : 2603528-97-6
Molecular Formula : C₂₁H₂₁F₃N₄O₂
Molecular Weight : 418.42
Target : DNA/RNA Synthesis
Solubility : 10 mM in DMSO (4.2 mg/mL)



Biological Activity

ART558 (ART-558) is a highly potent, selective, allosteric inhibitor of the polymerase function of **DNA polymerase Polθ** with IC₅₀ of 7.9 nM.

ART558 does not inhibit other human DNA polymerases, namely Polα, Polγ, Polη and Polv, as well as a panel of 78 oncology-focussed kinases, including PARP1 and PARP2.

ART558 inhibits the major Polθ-mediated DNA repair process, Theta-Mediated End Joining, without targeting Non-Homologous End Joining (NHEJ).

ART558 elicits DNA damage and synthetic lethality in BRCA1- or BRCA2-mutant tumour cells and enhances the effects of PARP inhibitor Olaparib.

References

Diana Zatreanu, et al. **Nat Commun.** 2021 Jun 17;12(1):3636.

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

E-mail: tech@probechem.com