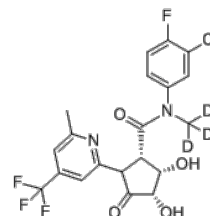


Product Name : ART899
Cat. No. : PC-49680
CAS No. : 2607139-85-3
Molecular Formula : C₂₀H₁₄D₃ClF₄N₂O₄
Molecular Weight : 463.83
Target : DNA/RNA Synthesis
Solubility : 10 mM in DMSO



Biological Activity

ART899 (ART-899) is a potent, specific allosteric inhibitor of **DNA polymerase theta (Polθ)**, specifically inhibits Polθ MMEJ activity with IC₅₀ of 180 nM, shows with improved in vivo stability compared to ART558.

ART899 effectively radiosensitizes HCT116 and H460 cells at both 1 μM and 3 μM.

ART899 specifically radiosensitizes tumor cells with no effect on some non-cancerous cells.

The combination of Polθ inhibition using ART899 with fractionated radiation is well tolerated and results in a significant reduction in tumor growth compared to radiation alone.

References

Gonzalo Rodriguez-Berriguete, et al. *Clin Cancer Res.* 2023 Jan 23;CCR-22-2977.

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

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