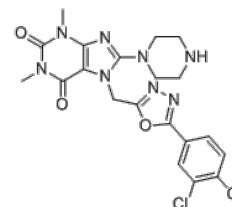


Product Name : TH5427
Cat. No. : PC-62517
CAS No. : 2253744-56-6
Molecular Formula : C₂₀H₂₀Cl₂N₈O₃
Molecular Weight : 491.333
Target : DNA Repair Protein
Solubility : 10 mM in DMSO



Biological Activity

TH5427 (TH5427) is a potent, small molecule **NUDT5** (NUDIX hydrolase type 5) inhibitor with IC₅₀ of 29 nM, 690-fold selectivity for NUDT5 over MTH1 (NUDT1) in vitro.

TH5427 shows little to no effect on NUDT9, dCTPase, NUDT12 and NUDT14.

TH5427 inhibits progestin-dependent nuclear ATP synthesis, subsequent chromatin remodeling, gene regulation and proliferation in breast cancer cells.

TH5427 is a potent NUDT5 inhibitor that blocks hormone-dependent gene expression in breast cancer cells.

References

Page BDG, et al. *Nat Commun.* 2018 Jan 17;9(1):250.

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

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