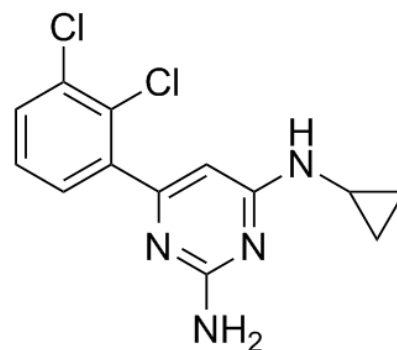


Product Name : TH-588
Cat. No. : PC-43226
CAS No. : 1609960-31-7
Molecular Formula : C₁₃H₁₂Cl₂N₄
Molecular Weight : 295.1672
Target : DNA Repair Protein
Solubility : DMSO: 16 mg/mL



Biological Activity

TH-588 (TH588) is a potent and selective inhibitor of **MTH1 (NUDT1)** protein with IC₅₀ of 5 nM.

TH-588 shows no relevant inhibition for MTH2,NUDT5, NUDT12,NUDT14,NUDT16 and other proteins with known nucleoside triphosphate pyrophosphatase activity.

TH-588 causes incorporation of oxidized dNTPs in cancer cells, leading to DNA damage, cytotoxicity and therapeutic responses in patient-derived mouse xenografts.

References

Gad H, et al. **Nature**. 2014 Apr 10;508(7495):215-21.

Wang M, et al. **Sci Rep**. 2017 Jan 11;7:40557.

Warpman Berglund U, et al. **Ann Oncol**. 2016 Dec;27(12):2275-2283.

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

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