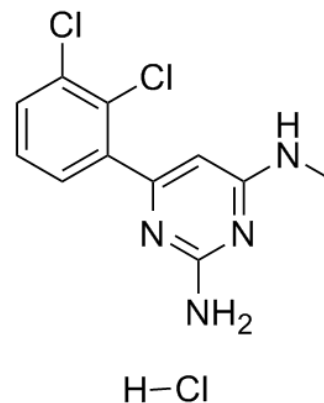


Product Name : TH-287 hydrochloride
Cat. No. : PC-45105
CAS No. : 1638211-05-8
Molecular Formula : C₁₁H₁₁Cl₃N₄
Molecular Weight : 305.5909
Target : DNA Repair Protein
Solubility : 10 mM in DMSO



Biological Activity

TH-287 hydrochloride is a potent and selective inhibitor of **MTH1** (NUDT1) protein with IC₅₀ of 0.8 nM.

TH-287 shows no relevant inhibition for MTH2,NUDT5, NUDT12,NUDT14,NUDT16 and other proteins with known nucleoside triphosphate pyrophosphatase activity.

TH-287 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.

Kawamura T, et al. **Sci Rep**. 2016 May 23;6:26521.

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

E-mail: tech@probechem.com