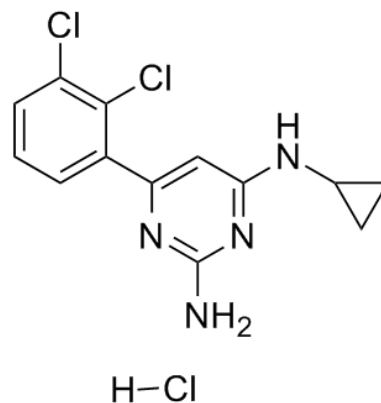


Product Name : TH-588 hydrochloride
Cat. No. : PC-43227
CAS No. : 1640282-30-9
Molecular Formula : C₁₃H₁₃Cl₃N₄
Molecular Weight : 331.6281
Target : DNA Repair Protein
Solubility : 10 mM in DMSO



Biological Activity

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

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

TH-588 hydrochloride 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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