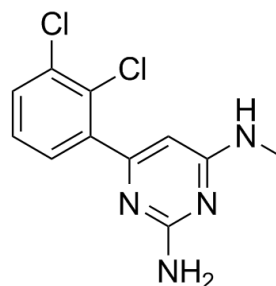


Product Name : TH-287
Synonyms : TH287
Cat No. : M12321
CAS Number : 1609960-30-6
Molecular Formula : C₁₁H₁₀Cl₂N₄
Formula Weight : 269.13
Chemical Name : 2,4-Pyrimidinediamine, 6-(2,3-dichlorophenyl)-N4-methyl-



Description : A potent and selective inhibitor of MTH1 protein with IC₅₀ of 0.8 nM; shows no relevant inhibition for MTH2,NUDT5,NUDT12,NUDT14,NUDT16 and other proteins with known nucleoside triphosphate pyrophosphatase activity; causes incorporation of oxidized dNTPs in cancer cells, leading to DNA damage, cytotoxicity and therapeutic responses in patient-derived mouse xenografts.

Pathway : Cell Cycle/DNA Damage

Target : DNA/RNA Synthesis

Receptor : MTH1

Solubility : DMSO: ≥ 2.6 mg/mL

SMILES : NC1=NC(C2=CC=CC(Cl)=C2Cl)=CC(NC)=N1

Storage : (-20°C)

Stability : ≥ 2 years

Reference :

1. Gad H, et al. Nature. 2014 Apr 10;508(7495):215-21. | 2. Wang M, et al. Sci Rep. 2017 Jan 11;7:40557. | 3. Kawamura T, et al. Sci Rep. 2016 May 23;6:26521.