

Product Name : TH-287 hydrochloride

Synonyms : TH287 hydrochloride

Cat No. : M12473

CAS Number : 1638211-05-8

Molecular Formula : C₁₁H₁₁Cl₃N₄

Formula Weight : 305.59

Chemical Name : 2,4-Pyrimidinediamine, 6-(2,3-dichlorophenyl)-N4-methyl-, hydrochloride (1:1)

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 : DNA/RNA Synthesis

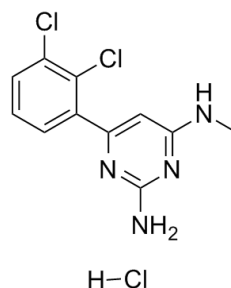
Solubility : 10 mM in DMSO

SMILES : CNC1=NC(=NC(=C1)C2=C(C(=CC=C2)Cl)Cl)N.Cl

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.