

Product Data Sheet

Product Name: TH287 hydrochloride

Cat. No.: GC37775

Chemical Properties

Cas. No. 1638211-05-8

SMILES NC1=NC(C2=CC=CC(Cl)=C2Cl)=CC(NC)=N1.[H]Cl

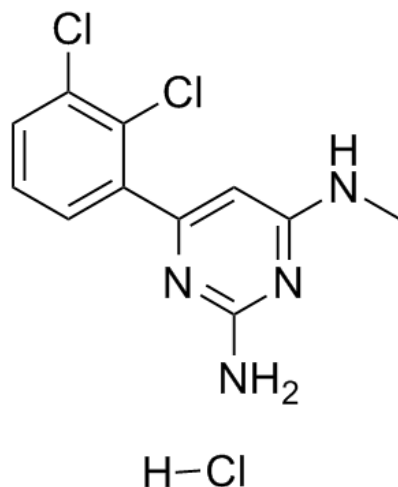
Formula $C_{11}H_{11}Cl_3N_4$ M.Wt 305.59

Solubility Soluble in DMSO Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure



Background

TH287 hydrochloride is a potent inhibitor of MTH1 (NUDT1) with an IC₅₀ value of 0.8 nM, less potent for MTH2, NUDT5, NUDT12, NUDT14, and NUDT16. IC₅₀ value: 0.8 nM [1] Target: MTH1 inhibitor TH287 is considered a new target for cancer therapy. TH287 is highly selective towards MTH1, with no relevant inhibition of other members of the nudix protein family. TH287 has been shown to selectively kill a variety of cancer cell lines, but is rapidly metabolized, so not as useful for in vivo studies.

Caution: Product has not been fully validated for medical applications. For research use only.

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[1]. Gad H, et al. MTH1 inhibition eradicates cancer by preventing sanitation of the dNTP pool. Nature. 2014 Apr 10;508(7495):215-21.

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