
Product Data Sheet

Product Name: TH 5427 hydrochloride

Cat. No.: GC50490

Chemical Properties

Cas. No. 2253744-57-7

SMILES O=C1N(C)C(C(N(CC2=NN=C(C3=CC(CI)=C(CI)C=C3)O2)C(N4CCNCC4)=N5)=C5N1C)=O.Cl

Formula $C_{20}H_{20}Cl_2N_8O_3.HCl$ M.Wt 527.79

Solubility Soluble in DMSO Storage Store at -20°C

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

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

Structure

Background

Potent nudix hydrolase 5 (NUDT5) inhibitor (IC₅₀ = 29 nM). Displays >650-fold selectivity for NUDT5 over MTH1. Inhibits ATP synthesis, chromatin remodeling, gene expression and proliferation in progestin-treated breast cancer cells in vitro.

Page et al (2018) Targeted NUDT5 inhibitors block hormone signaling in breast cancer cells. Nat. Commun. 9 250 PMID:29343827

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

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