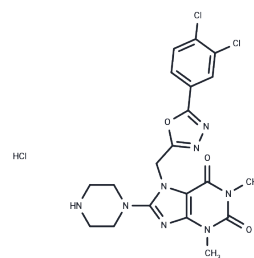


TH5427 hydrochloride

Chemical Properties

CAS No. :	2253744-57-7
Formula:	C ₂₀ H ₂₁ Cl ₃ N ₈ O ₃
Molecular Weight:	527.79
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	TH5427 hydrochloride is a potent and selective inhibitor of NUDT5 with an IC ₅₀ of 29 nM. It demonstrates a remarkable 690-fold selectivity towards NUDT5 compared to MTH1. Moreover, TH5427 hydrochloride effectively inhibits progesterin-dependent, PAR-derived nuclear ATP synthesis in breast cancer cells, thereby impeding chromatin remodeling, gene regulation, and ultimately suppressing proliferation.
Targets(IC ₅₀)	Others,DNA/RNA Synthesis
In vitro	TH5427 hydrochloride effectively suppresses progesterin-induced nuclear ATP synthesis in breast cancer cells and markedly inhibits both EGFR and MMTV-luc expression post-progesterin stimulation. Furthermore, TH5427 hydrochloride nullifies the proliferative response dependent on progesterin in T47D WT cells[1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.8947 mL	9.4735 mL	18.9469 mL
5 mM	0.3789 mL	1.8947 mL	3.7894 mL
10 mM	0.1895 mL	0.9473 mL	1.8947 mL
50 mM	0.0379 mL	0.1895 mL	0.3789 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Page BDG, et al. Targeted NUDT5 inhibitors block hormone signaling in breast cancer cells [published correction appears in Nat Commun. 2019 Nov 1;10(1):5050]. Nat Commun. 2018;9(1):250. Published 2018 Jan 17.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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