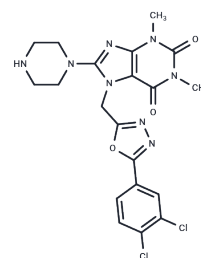


TH5427

Chemical Properties

CAS No. : 2253744-56-6
Formula: C₂₀H₂₀Cl₂N₈O₃
Molecular Weight: 491.33
Appearance: no data available
Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year



Biological Description

Description	TH5427 is a lead NUDT5 inhibitor(MG assay IC ₅₀ =29nM).
Targets(IC ₅₀)	NUDIX hydrolase
In vitro	In HL-60 cell lysates, TH5427(20μM) stabilized NUDT5 to nearly the same levels as observed in the 37°C DMSO control. TH5427 was the most potent stabilizer under the described conditions with an apparent EC ₅₀ of 2.1μM. Accordingly, TH5427 had a positive, dose-dependent shift in the apparent Tagg—the temperature at which 50 % of the target protein denatures and aggregates (TH5427 shifted NUDT5 Tagg up to ~8°C)[1].

Solubility Information

Solubility	H ₂ O: < 1 mg/mL (insoluble or slightly soluble) DMSO: 3.67 mg/mL (7.46 mM),Sonication is recommended. (1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.0353 mL	10.1765 mL	20.3529 mL
5 mM	0.4071 mL	2.0353 mL	4.0706 mL
10 mM	0.2035 mL	1.0176 mL	2.0353 mL
50 mM	0.0407 mL	0.2035 mL	0.4071 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.

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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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