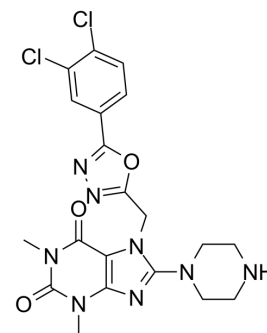


TH5427

Cat. No.:	HY-125209
CAS No.:	2253744-56-6
Molecular Formula:	C ₂₀ H ₂₀ Cl ₂ N ₈ O ₃
Molecular Weight:	491.33
Target:	Others
Pathway:	Others
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 5 mg/mL (10.18 mM); ultrasonic and warming and heat to 60°C						
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg	
				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
Please refer to the solubility information to select the appropriate solvent.							
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 0.5 mg/mL (1.02 mM); Clear solution						
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 0.5 mg/mL (1.02 mM); Clear solution						

BIOLOGICAL ACTIVITY

Description	TH5427 is a promising, targeted inhibitor that can be used to further study NUDT5 activity and ADP-ribose metabolism. TH5427, blocks progesterin-dependent, PAR-derived nuclear ATP synthesis and subsequent chromatin remodeling, gene regulation and proliferation in breast cancer cells. NUDT5 is recently identified as a rheostat of hormone-dependent gene regulation and proliferation in breast cancer cells ^[1] .
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REFERENCES

[1]. 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.

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

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