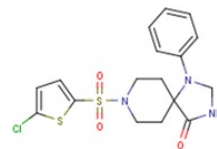


ATP synthase inhibitor 1

Chemical Properties

CAS No.:	1023043-30-2
Formula:	C ₁₇ H ₁₈ ClN ₃ O ₃ S ₂
Molecular Weight:	411.93
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



Biological Description

Description	ATP synthase inhibitor 1 is an inhibitor of the c subunit of the F ₁ /F ₀ -ATP synthase complex. It inhibits mitochondrial permeability transition pore (mPTP) opening and does not affect ATP levels.
Targets(IC ₅₀)	F ₁ /F ₀ -ATP synthase: None

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.428 mL	12.138 mL	24.276 mL
5 mM	0.486 mL	2.428 mL	4.855 mL
10 mM	0.243 mL	1.214 mL	2.428 mL
50 mM	0.049 mL	0.243 mL	0.486 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. Morciano G, et al. Discovery of Novel 1,3,8-Triazaspiro[4.5]decane Derivatives That Target the c Subunit of F₁/F₀-Adenosine Triphosphate (ATP) Synthase for the Treatment of Reperfusion Damage in Myocardial Infarction. J Med Chem. 2018 Aug 23;61(16):7131-7143.

Inhibitors · Natural Compounds · Compound Libraries

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