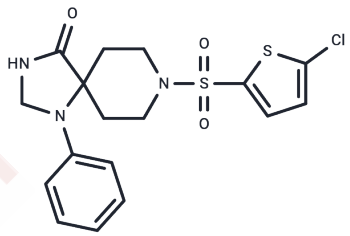
Data Sheet (Cat.No.T10404)

TargetMol

ATP synthase inhibitor 1

Chemical Properties



CAS No. : 1023043-30-2

Formula: C17H18ClN3O3S2

Molecular Weight: 411.93

Storage: Powder: -20°C for 3 years
Actual storage temperature shall be subject to the COA.

Biological Description

Description	ATP synthase inhibitor 1 is an inhibitor of the c subunit of the F1/FO-ATP synthase complex. It inhibits mitochondrial permeability transition pore (mPTP) opening and does not affect ATP levels.
Targets(IC50)	ATPase
In vitro	ATP synthase inhibitor 1 is a potent inhibitor of c subunit of the F1/FO-ATP synthase complex[1].

Solubility Information

Solubility	DMSO: 4.94 mg/mL (11.99 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.4276 mL	12.138 mL	24.276 mL
5 mM	0.4855 mL	2.4276 mL	4.8552 mL
10 mM	0.2428 mL	1.2138 mL	2.4276 mL
50 mM	0.0486 mL	0.2428 mL	0.4855 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

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

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