ATP synthase inhibitor 1

Cat. No.: HY-112715

CAS No.: 1023043-30-2

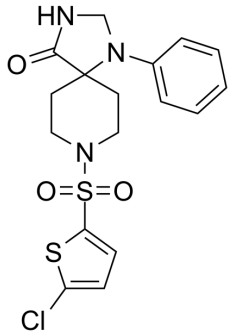
Molecular Formula: $C_{17}H_{18}ClN_3O_3S_2$

Molecular Weight: 411.93

Target: ATP Synthase

Pathway: Membrane Transporter/Ion Channel

Storage: Powder -20°C 3 years
4°C 2 years
* The compound is unstable in solutions, freshly prepared is recommended.



SOLVENT & SOLUBILITY

In Vitro

DMSO : 5 mg/mL (12.14 mM; Need ultrasonic)

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	2.4276 mL	12.1380 mL	24.2760 mL
	5 mM	0.4855 mL	2.4276 mL	4.8552 mL
	10 mM	0.2428 mL	1.2138 mL	2.4276 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

ATP synthase inhibitor 1 is a potent inhibitor of c subunit of the F_1/F_O-ATP synthase complex, inhibits mitochondrial permeability transition pore (mPTP) opening, does not affect ATP levels[1].

IC_{50} & Target

F_1/F_O-ATP synthase[1]

In Vitro

ATP synthase inhibitor 1 (Compound 10) is a potent inhibitor of c subunit of the F_1/F_O-ATP synthase complex[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. 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):7131-7

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

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