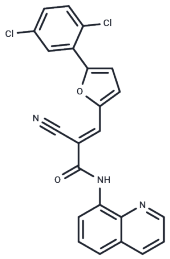
Data Sheet (Cat.No.T22026)

TargetMol

AGK7

Chemical Properties



CAS No. : 304896-21-7

Formula: C23H13Cl2N3O2

Molecular Weight: 434.27

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	AGK7 is an inactive control of AGK2, a selective SIRT2 inhibitor that selectively inhibits SIRT3 over SIRT1 and SIRT2 (IC50 = >5 μM, >50 μM and >50 μM for SIRT3, SIRT1, and SIRT2, respectively).
Targets(IC50)	Sirtuin
In vitro	AGK2 is a selective SIRT2 inhibitor with IC50 value of 3.5 μM. AGK2 slightly inhibited SIRT1 and 3 only at concentrations over 40 μM. Relative to an inactive control AGK7, AGK2 increased acetylated tubulin. In H4 cells transfected with α-Syn, AGK2 reduced α-Syn-mediated toxicity in a dose-dependent way. By contrast, the inactive AGK7 had no effect. In H4 cells cotransfected withα-Syn and synphilin-1, the inactive AGK7 failed to affect a-Syn aggregation, whereas AGK2 promoted the formation of enlarged inclusions [1].

Solubility Information

Solubility	DMSO: 0.5 mg/mL (1.15 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.3027 mL	11.5136 mL	23.0271 mL
5 mM	0.4605 mL	2.3027 mL	4.6054 mL
10 mM	0.2303 mL	1.1514 mL	2.3027 mL
50 mM	0.0461 mL	0.2303 mL	0.4605 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

Tiago Fleming Outeiro, et al.Sirtuin 2 inhibitors rescue alpha-synuclein-mediated toxicity in models of Parkinson's disease.Science. 2007 Jul 27;317(5837):516-9.

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