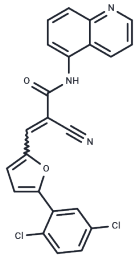
Data Sheet (Cat.No.T6371)

TargetMol

AGK2

Chemical Properties



CAS No. : 304896-28-4

Formula: C23H13Cl2N3O2

Molecular Weight: 434.27

Appearance: no data available

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Biological Description

Description	AGK2(IC50=3.5 μM) is an effective, and specific SIRT2 inhibitor.
Targets(IC50)	Apoptosis,Sirtuin
In vitro	In SIRT2-myc-expressing HeLa cells, AGK2 effectively inhibits the activity of SIRT2, and increases acetylated tubulin. AGK2 protects dopaminergic neurons from α-Syn-induced toxicity in primary midbrain cultures. [1] AGK2 induces both necrosis and caspase-3-dependent apoptosis in C6 glioma cells. [2] SIRT2 also decreases merlin-mutant viability of mouse schwann cells (MSCs) without substantially reducing wild-type MSC viability. [3]
In vivo	In drosophila model of parkinson's disease, AGK2 rescues α-Syn-mediated toxicity and modify aggregation. [1]

Solubility Information

Solubility	DMSO: 4.3 mg/mL (9.9 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.

Reference

Outeiro TF, et al. Science.2007, 317(5837), 516-519.
He X, et al. Biochem Biophys Res Commun. 2012, 417(1), 468-472.
Petrilli A, et al. Oncotarget. 2013, 4(12), 2354-2365.

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