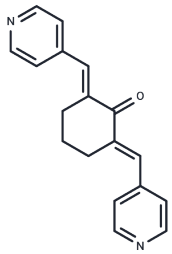
Data Sheet (Cat.No.T3132)

TargetMol
YOUR TARGET MOLECULES

SC66

Chemical Properties



CAS No. : 871361-88-5

Formula: C18H16N2O

Molecular Weight: 276.33

Appearance: no data available

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

Biological Description

Description	SC66 is a AKT inhibitor in HepG2, HA22T/VGH, and PLC/PRF/5 cells (IC50: about 0.75 μg/ml, at 72 h).
Targets(IC50)	Apoptosis,Akt
In vitro	HepG2, HA22T/VGH, and PLC/PRF/5 cells had similar IC50 values of approximately 0.85 and 0.75 μg/ml at 48 and 72 hours for SC66, respectively. The most resistant cell line was Huh7(IC50: 3.1/2.8 μg/ml, at 48/72 h), while the Hep3B cell line was found to be the most sensitive, (IC50: 0.75/0.5 μg/ml, at 48/72 h). SC66 reduced cell viability in a time- and dose-dependent manner inhibited colony formation and induced apoptosis in HCC cells. SC66 treatment led to a reduction in total and phospho-AKT levels. In addition, SC66 induces the production of reactive oxygen species (ROS) and DNA damage. SC66 significantly potentiates the effects of both conventional chemotherapeutic and targeted agents, doxorubicin and everolimus, respectively. [1]
In vivo	In xenograft models, SC66 can inhibit tumor growth of Hep3B cells.

Solubility Information

Solubility	DMSO: 20.7 mg/mL(75 mM), (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.6189 mL	18.0943 mL	36.1886 mL
5 mM	0.7238 mL	3.6189 mL	7.2377 mL
10 mM	0.3619 mL	1.8094 mL	3.6189 mL
50 mM	0.0724 mL	0.3619 mL	0.7238 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

Cusimano A, et al. Oncotarget. 2015 Jan 30;6(3):1707-22.
Jo H, et al. Proc Natl Acad Sci U S A. 2011 Apr 19;108(16):6486-91.