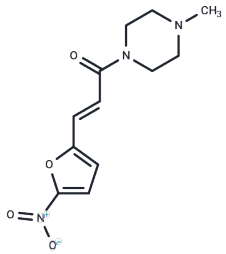
Data Sheet (Cat.No.T6910)

TargetMol

NSC59984

Chemical Properties



CAS No. : 803647-40-7

Formula: C12H15N3O4

Molecular Weight: 265.27

Appearance: no data available

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

Biological Description

Description	NSC59984, a p53 pathway activator, induces mutant p53 protein degradation and p73 activation.
Targets(IC50)	p53
In vitro	NSC59984 selectively reactivates the p53 pathway and induces p73-dependent cell death in mutant p53-expressing human colorectal cancer cells. It also promotes cell death in various cancer cell lines with different p53 mutations, showing minimal genotoxicity in normal cells. [1]
In vivo	In nude mice bearing DLD-1 xenograft tumors, NSC59984 (45 mg/kg, i.p.) significantly represses tumor growth in a p73-dependent manner. [1]
Cell Research	Cells are seeded at 5,000 cells per well on 96-well plates. Cells are mixed with an equal volume of CellTiter-Glo reagents, following the manufacturer's protocol, and bioluminescence imaging is measured using the IVIS imager.(Only for Reference)

Solubility Information

Solubility	Ethanol: 49 mg/mL (184.72 mM),Sonication is recommended. H2O: < 1 mg/mL (insoluble or slightly soluble), DMSO: 55 mg/mL (207.34 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.7697 mL	18.8487 mL	37.6974 mL
5 mM	0.7539 mL	3.7697 mL	7.5395 mL
10 mM	0.377 mL	1.8849 mL	3.7697 mL
50 mM	0.0754 mL	0.377 mL	0.7539 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

Zhang S, et al. Cancer Res. 2015, 75(18), 3842-3852.