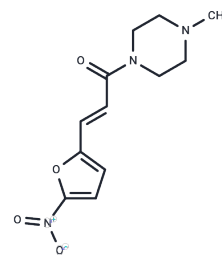


NSC59984

## Chemical Properties

CAS No. : 803647-40-7  
 Formula: C<sub>12</sub>H<sub>15</sub>N<sub>3</sub>O<sub>4</sub>  
 Molecular Weight: 265.27  
 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	NSC59984, a p53 pathway activator, induces mutant p53 protein degradation and p73 activation.
Targets(IC50)	p53,MDM-2/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. H <sub>2</sub> O: < 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)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (7.54 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

### Preparing Stock Solutions

---

	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
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.

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

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

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481