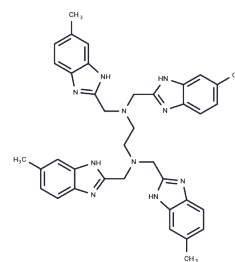


NSC348884

Chemical Properties

CAS No. : 81624-55-7
 Formula: C₃₈H₄₀N₁₀
 Molecular Weight: 636.79
 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	NSC348884 is a nucleophosmin inhibitor disrupts oligomer formation and induces apoptosis, inhibits cell proliferation at an IC ₅₀ of 1.7-4.0 μM in distinct cancer cell lines.
Targets(IC ₅₀)	Apoptosis,p53
In vitro	NSC348884 disrupts a defined hydrophobic pocket required for oligomerization. NSC348884 disrupts nucleophosmin oligomer formation by native polyacrylamide gel electrophoresis assay. NSC348884 upregulates p53. NSC348884 induces apoptosis.
In vivo	In vivo invasion and intravasation (that is, the number of CTCs) are significantly inhibited after injection of NSC348884(as an inhibitor of NPM1 oligomerization) into the tumor-bearing mice. No significant difference in overall cell death is observed by histology in the treated tumors with the 4-hour brief treatments, suggesting that the inhibition seen is specific to migration.[2].

Solubility Information

Solubility	DMSO: 255 mg/mL (400.45 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 2.5 mg/mL (3.93 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

	1mg	5mg	10mg
1 mM	1.5704 mL	7.8519 mL	15.7038 mL
5 mM	0.3141 mL	1.5704 mL	3.1408 mL
10 mM	0.157 mL	0.7852 mL	1.5704 mL
50 mM	0.0314 mL	0.157 mL	0.3141 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

W Qi, et al. *Oncogene*. 2008, 27:4210-4220.

Wang X Y, Wu K H, Pang H L, et al. Study on the Role of Cyt c in Response to BmNPV Infection in Silkworm, *Bombyx mori* (Lepidoptera). *International journal of molecular sciences*. 2019, 20(18): 4325.

Patsialou, et al. *Breast Cancer Research*. 2012, 14:R139.

Wang X Y, Wu K H, Pang H L, et al. Study on the Role of Cyt c in Response to BmNPV Infection in Silkworm, *Bombyx mori* (Lepidoptera)[J]. *International journal of molecular sciences*. 2019, 20(18): 4325.

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