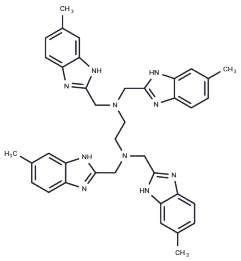
Data Sheet (Cat.No.T6909)

TargetMol

NSC348884

Chemical Properties



CAS No. : 81624-55-7

Formula: C38H40N10

Molecular Weight: 636.79

Appearance: no data available

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

Biological Description

Description	NSC348884 is a nucleophosmin inhibitor disrupts oligomer formation and induces apoptosis, inhibits cell proliferation at an IC50 of 1.7-4.0 μM in distinct cancer cell lines.
Targets(IC50)	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: 50 mg/mL (78.52 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

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.

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 Cytc 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 Cytc in Response to BmNPV Infection in Silkworm, Bombyx mori (Lepidoptera)[J]. International journal of molecular sciences. 2019, 20(18): 4325.

Tel:781-999-4286 E_mail:info@targetmol.com Address:36 Washington Street,Wellesley Hills,MA 02481