Product Name: NSC348884
Catalog Number: T6909
CAS Number: 81624-55-7
Molecular Formula: C38H40N10
Molecular Weight: 636.81

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.

Storage: 2 years -80°C in solvent; 3 years -20°C powder;

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<tr>
<th>Solubility</th>
<th>DMSO</th>
<th>34 mg/mL</th>
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<td>(&lt; 1 mg/ml refers to the product slightly soluble or insoluble)</td>
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| Receptor (IC50) | nucleophosmin | 4μM |

In vitro Activity
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 Activity
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].

Animal Experiment
Animal Model: Mice bearing either orthotopic MDA-MB-231-GFP tumors (MDA231) or patient-derived HT17 and HT19 tumors

Reference

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