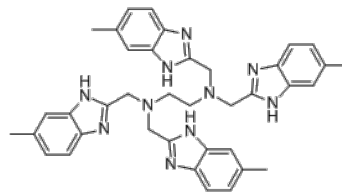


Product Name : NSC348884
Cat. No. : PC-20788
CAS No. : 81624-55-7
Molecular Formula : C₃₈H₄₀N₁₀
Molecular Weight : 636.81
Target : Other Targets
Solubility : 10 mM in DMSO



Biological Activity

NSC348884 is a small molecule **nucleophosmin** (NPM) inhibitor, disrupts the formation of dimers and inhibits aberrant NPM function in cancer cells.

NSC348884 inhibits cell proliferation at an IC₅₀ of 1.7-4.0 μM in distinct cancer cell lines and disrupts NPM oligomer formation by native polyacrylamide gel electrophoresis assay.

NSC348884 upregulates p53 (increased Ser15 phosphorylation) and induces apoptosis in a dose-dependent manner that correlated with apoptotic markers: H2AX phosphorylation, poly(ADP-ribose) polymerase cleavage and Annexin V labeling. NSC348884 synergizes doxorubicin cytotoxicity on cancer cell viability.

References

Qi W, et al. **Oncogene**. 2008 Jul 10;27(30):4210-20.

Balusu R, et al. **Blood**. 2011 Sep 15;118(11):3096-106.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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