



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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- Expressversand

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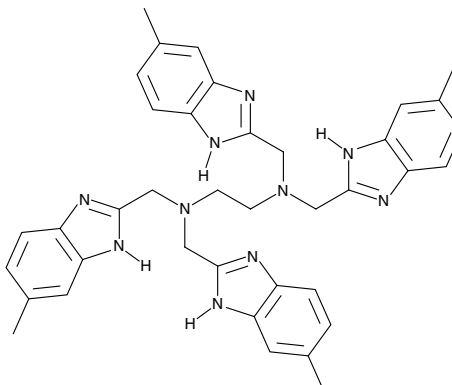
# Product Information



**NSC 348884**

Item No. 16716

**CAS Registry No.:** 81624-55-7  
**Formal Name:** N<sup>1</sup>,N<sup>1</sup>,N<sup>2</sup>,N<sup>2</sup>-tetrakis[(6-methyl-1H-benzimidazol-2-yl)methyl]-1,2-ethanediamine  
**MF:** C<sub>38</sub>H<sub>40</sub>N<sub>10</sub>  
**FW:** 636.8  
**Purity:** ≥98%  
**Stability:** ≥2 years at -20°C  
**Supplied as:** A crystalline solid  
**UV/Vis.:** λ<sub>max</sub>: 247, 281, 287 nm



## Laboratory Procedures

For long term storage, we suggest that NSC 348884 be stored as supplied at -20°C. It should be stable for at least two years.

NSC 348884 is supplied as a crystalline solid. A stock solution may be made by dissolving the NSC 348884 in the solvent of choice. NSC 348884 is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF), which should be purged with an inert gas. The solubility of NSC 348884 in these solvents is approximately 1, 10, and 20 mg/ml, respectively.

NSC 348884 is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, NSC 348884 should first be dissolved in DMF and then diluted with the aqueous buffer of choice. NSC 348884 has a solubility of approximately 0.25 mg/ml in a 1:2 solution of DMF:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Nucleophosmin is a nucleolar phosphoprotein involved in cell proliferation, cytoplasmic/nuclear shuttle transportation, nucleic acid binding, ribonucleic cleavage, centrosome duplication, and molecular chaperoning. Its activity is dependent on oligomerization at its N-terminal domain, and it is abundantly expressed in tumor and developing cells where it serves to inhibit both cellular differentiation and apoptosis.<sup>1</sup> NSC 348884 is a small molecule that inhibits the formation of nucleophosmin dimers by disrupting a required binding pocket. It can inhibit cell proliferation and induce apoptosis in various cancer cell lines with IC<sub>50</sub> values ranging from 1.4-4 μM.<sup>1,2</sup>

## References

1. Qi, W., Shakalya, K., Stejskal, A., *et al.* NSC348884, a nucleophosmin inhibitor disrupts oligomer formation and induces apoptosis in human cancer cells. *Oncogene* **27**(30), 4210-4220 (2008).
2. Zhang, J., Zhao, H.-L., He, J., *et al.* Inhibitory effect of NSC348884, a small molecular inhibitor of nucleophosmin, on the growth of hepatocellular carcinoma cell line hepG2. *Zhongguo Yi Xue Ke Yuan Xue Bao* **34**(1), 58-61 (2012).

## Related Products

For a list of related products please visit: [www.caymanchem.com/catalog/16716](http://www.caymanchem.com/catalog/16716)

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**WARNING: THIS PRODUCT IS FOR LABORATORY RESEARCH ONLY: NOT FOR ADMINISTRATION TO HUMANS. NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.**

#### SAFETY DATA

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