

Certificate of Analysis

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Product Name: NSC 66811

Catalog No.: 2936

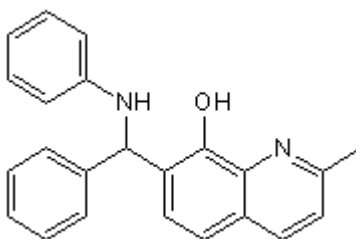
Batch No.: 1

CAS Number: 6964-62-1

IUPAC Name: 2-Methyl-7-[Phenyl(phenylamino)methyl]-8-quinolinol

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₃H₂₀N₂O
Batch Molecular Weight: 340.42
Physical Appearance: White solid
Solubility: DMSO to 100 mM
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.76 (Ethyl acetate:Petroleum ether [1:1])
HPLC: Shows 97.1% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	81.15	5.92	8.23
Found	81.26	6.13	8.25

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

Product Information

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Batch No.: 1

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IUPAC Name: 2-Methyl-7-[Phenyl(phenylamino)methyl]-8-quinolinol

Description:

Potent MDM2 inhibitor ($K_i = 120$ nM) which disrupts MDM2-p53 interaction and activates p53 function. Induces p21, p53 and MDM2 accumulation in human colon cancer cells in vitro.

Physical and Chemical Properties:

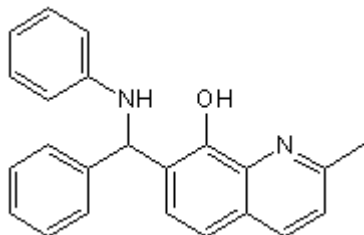
Batch Molecular Formula: $C_{23}H_{20}N_2O$

Batch Molecular Weight: 340.42

Physical Appearance: White solid

Minimum Purity: >97%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

DMSO to 100 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Lu et al (2006) Discovery of a nanomolar inhibitor of the human murine double minute 2 (MDM2)-p53 interaction through an integrated, virtual database screening strategy. *J.Med.Chem.* **49** 3759. PMID: 16789731.

Shangary and Shaomeng (2009) Small-molecule inhibitors of the MDM2-p53 protein-protein interaction to reactivate p53 function: a novel approach for cancer therapy. *Ann.Rev.Pharmacol.Toxicol.* **49** 223.

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