

Certificate of Analysis

www.tocris.com

Product Name: NSC 3852

CAS Number: 3565-26-2

IUPAC Name: 5-Nitroso-8-quinolinol

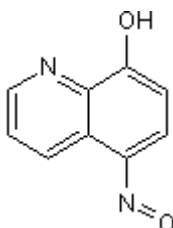
Catalog No.: 2521

EC Number: 222-650-6

Batch No.: 1

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₉H₆N₂O₂
Batch Molecular Weight: 174.16
Physical Appearance: Tan solid
Solubility: DMSO to 100 mM
ethanol to 10 mM
Storage: Store at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows >95.2% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	62.07	3.47	16.08
Found	61.7	3.42	16.08

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

Product Name: NSC 3852

CAS Number: 3565-26-2

IUPAC Name: 5-Nitroso-8-quinolinol

Catalog No.: 2521

EC Number: 222-650-6

Batch No.: 1

Description:

Histone deacetylase inhibitor. Causes cell differentiation and antiproliferative activity in MCF-7 human breast cancer cells in vitro and displays antitumor activity in vivo.

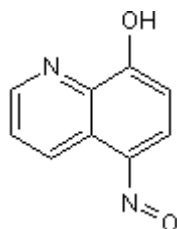
Physical and Chemical Properties:

Batch Molecular Formula: C₉H₆N₂O₂

Batch Molecular Weight: 174.16

Physical Appearance: Tan solid

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

DMSO to 100 mM

ethanol to 10 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:

Martirosyan et al (2004) Differentiation-inducing quinolines as experimental breast cancer agents in the MCF-7 human breast cancer cell model. *Biochem.Pharmacol.* **68** 1729. PMID: 15450938.

Martirosyan et al (2006) Actions of a histone deacetylase inhibitor NSC3852 (5-nitroso-8-quinolinol) link reactive oxygen species to cell differentiation and apoptosis in MCF-7 human mammary tumor cells. *J.Pharmacol.Exp.Ther.* **317** 546. PMID: 16497787.

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

bio-techne.com

info@bio-techne.com

techsupport@bio-techne.com

North America

Tel: (800) 343 7475

China

info.cn@bio-techne.com

Tel: +86 (21) 52380373

Europe Middle East Africa

Tel: +44 (0)1235 529449

Rest of World

www.tocris.com/distributors

Tel:+1 612 379 2956