

# Certificate of Analysis

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**Product Name:** NSC 146109 hydrochloride

**Catalog No.:** 2185

**Batch No.:** 1

**CAS Number:** 59474-01-0

**IUPAC Name:** (10-Methyl-9-anthracenyl) methyl carbamimidothioic acid ester hydrochloride

## 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>17</sub>H<sub>16</sub>N<sub>2</sub>S.HCl.¼H<sub>2</sub>O

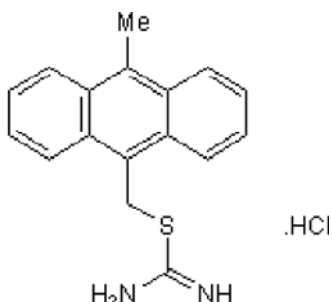
**Batch Molecular Weight:** 321.35

**Physical Appearance:** Yellow solid

**Solubility:** ethanol to 10 mM  
DMSO to 100 mM

**Storage:** Store at -20°C

**Batch Molecular Structure:**



## 2. ANALYTICAL DATA

**TLC:** R<sub>f</sub> = 0.8 (Isopropanol:Ammonia solution [6:4])

**HPLC:** Shows 97.1% purity

**<sup>1</sup>H NMR:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen	Chlorine
Theoretical	63.54	5.49	8.72	11.03
Found	63.63	5.46	8.58	11.18

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**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](http://www.tocris.com/distributors)

Tel: +1 612 379 2956

## Product Information

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### Description:

NSC 146109 hydrochloride is a cell-permeable, genotype-selective antitumor agent that activates p53-dependent transcription. Increases levels of endogenous p53 in tumor cells and protects p53 from Mdm2-mediated degradation. Displays some selectivity for tumor cells vs. normal cells in an MTT cell viability assay.

### Physical and Chemical Properties:

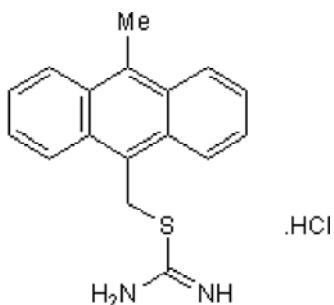
Batch Molecular Formula: C<sub>17</sub>H<sub>16</sub>N<sub>2</sub>S.HCl.¼H<sub>2</sub>O

Batch Molecular Weight: 321.35

Physical Appearance: Yellow solid

**Minimum Purity:** ≥97%

### Batch Molecular Structure:



**Storage:** Store at -20°C

### Solubility & Usage Info:

ethanol to 10 mM

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:

**Berkson *et al*** (2005) Pilot screening programme for small molecule activators of p53. *Int.J.Cancer* **115** 701. PMID: 15729694.

**Dolma *et al*** (2003) Identification of genotype-selective antitumor agents using synthetic lethal chemical screening in engineered human tumor cells. *Cancer Cell* **3** 285. PMID: 12676586.

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