

Product Name: NSC 319726

Catalog No.: 5065

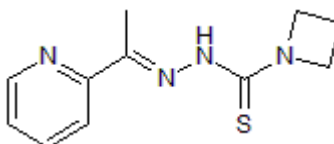
Batch No.: 1

CAS Number: 71555-25-4

IUPAC Name: 1-Azetidinecarbothioic acid [1-(2-pyridinyl)ethylidene]hydrazide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₁H₁₄N₄S
Batch Molecular Weight: 234.32
Physical Appearance: White solid
Solubility: DMSO to 100 mM
 ethanol to 10 mM with gentle warming
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.15 (Dichloromethane:Methanol:Ammonia soln. [100:1:0.1])
HPLC: Shows 100% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	56.38	6.02	23.91
Found	56.05	6.05	23.66

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

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Description:

Reactivator of mutant p53. Restores wild type p53 structure and function to the p53^{R175} mutant. Inhibits growth of fibroblasts expressing the p53^{R175} mutation (IC₅₀ = 8 nM). Also inhibits growth of xenograft tumors expressing the p53^{R175} mutation in vivo.

Physical and Chemical Properties:

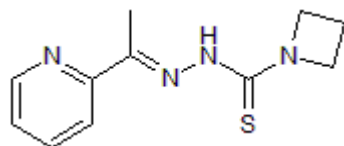
Batch Molecular Formula: C₁₁H₁₄N₄S

Batch Molecular Weight: 234.32

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 100 mM

ethanol to 10 mM with gentle warming

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:

Yu *et al* (2012) Allele-specific p53 mutant reactivation. *Cancer Cell* **21** 614. PMID: 22624712.

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