

Certificate of Analysis

Product Name: NSC 624206

Catalog No.: 4993

Batch No.: 1

CAS Number: 13116-77-3

IUPAC Name: *N*-[2-[[[(4-Chlorophenyl)methyl]dithio]ethyl]-1-decanamine hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₉H₃₂ClNS₂.HCl

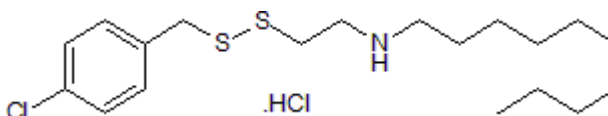
Batch Molecular Weight: 410.51

Physical Appearance: White solid

Solubility: DMSO to 50 mM
ethanol to 20 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.4% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	55.59	8.1	3.41
Found	55.76	8.17	3.45

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

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Description:

Ubiquitin-activating enzyme (E1) inhibitor; prevents tumour suppressor protein p27 ubiquitination in vitro. Blocks the ubiquitin-thioester formation step of the E1 activation reaction, but displays no effect on ubiquitin adenylation.

Physical and Chemical Properties:

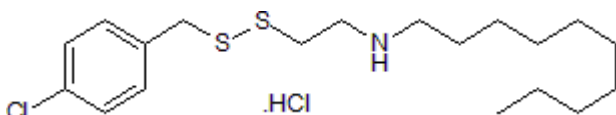
Batch Molecular Formula: C₁₉H₃₂ClNS₂.HCl

Batch Molecular Weight: 410.51

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 50 mM
ethanol to 20 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:

Ungermannova et al (2012) Identification and mechanistic studies of a novel ubiquitin E1 inhibitor. *J.Biomol.Screen.* **17** 421. PMID: 22274912.

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