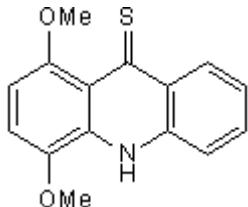


Certificate of Analysis**Product Name:** NSC 625987**Catalog No.:** 2152**Batch No.:** 2

CAS Number: 141992-47-4

IUPAC Name: 1,4-Dimethoxy-9(10H)-acridinethione

1. PHYSICAL AND CHEMICAL PROPERTIES**Batch Molecular Formula:** C₁₅H₁₃NO₂S**Batch Molecular Weight:** 271.33**Physical Appearance:** Brown solid**Solubility:** ethanol to 10 mM
DMSO to 100 mM**Storage:** Store at +4°C**Batch Molecular Structure:****2. ANALYTICAL DATA****TLC:** R_f = 0.8 (Dichloromethane:Methanol [20:1])**Melting Point:** Between 208 - 209°C**HPLC:** Shows >98.2% purity**¹H NMR:** Consistent with structure**Mass Spectrum:** Consistent with structure**Microanalysis:** Carbon Hydrogen Nitrogen

Theoretical 66.4 4.83 5.16

Found 66.41 4.84 5.23

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

Product Information

www.tocris.com**Product Name:** NSC 625987**Catalog No.:** 2152**Batch No.:** 2

CAS Number: 141992-47-4

IUPAC Name: 1,4-Dimethoxy-9(10H)-acridinethione

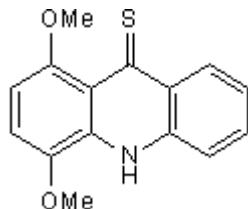
Description:

Cyclin-dependent kinase (cdk) 4 inhibitor (IC_{50} = 0.2 μ M at cdk4/cyclin D1). Displays > 500-fold selectivity over cdk2 (IC_{50} > 100 μ M for cdc2/cyclin A, cdk2/cyclin A and cdk2/cyclin E).

Physical and Chemical Properties:Batch Molecular Formula: $C_{15}H_{13}NO_2S$

Batch Molecular Weight: 271.33

Physical Appearance: Brown solid

Minimum Purity: >98%**Batch Molecular Structure:****Storage:** Store at +4°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:

Kubo *et al* (1999) The p16 status of tumor cell lines identifies small molecule inhibitors specific for cyclin-dependent kinase 4.

Clin.Cancer Res. **5** 4279. PMID: 10632371.

McInnes *et al* (2004) Structural determinants of CDK4 inhibition and design of selective ATP competitive inhibitors. Chem.Biol. **11** 525. PMID: 15123247.

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

bio-technne.cominfo@bio-technne.com
techsupport@bio-technne.com**North America**

Tel: (800) 343 7475

Chinainfo.cn@bio-technne.com
Tel: +86 (21) 52380373**Europe Middle East Africa**

Tel: +44 (0)1235 529449

Rest of Worldwww.tocris.com/distributors
Tel: +1 612 379 2956