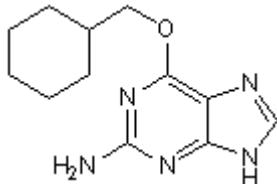


Certificate of Analysiswww.tocris.com**Product Name:** NU 2058**Catalog No.:** 3135**Batch No.:** 1

CAS Number: 161058-83-9

IUPAC Name: 6-(Cyclohexylmethoxy)-9*H*-purin-2-amine**1. PHYSICAL AND CHEMICAL PROPERTIES****Batch Molecular Formula:** C₁₂H₁₇N₅O_{0.34}H₂O**Batch Molecular Weight:** 260.81**Physical Appearance:** White solid**Solubility:** DMSO to 100 mM
ethanol to 10 mM**Storage:** Store at +4°C**Batch Molecular Structure:****2. ANALYTICAL DATA****HPLC:** Shows >99.5% purity**¹H NMR:** Consistent with structure**Mass Spectrum:** Consistent with structure**Microanalysis:** Carbon Hydrogen Nitrogen

Theoretical	55.26	7.15	26.85
Found	55.34	6.8	26.54

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

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Product Information

Product Name: NU 2058**Catalog No.:** 3135**Batch No.:** 1

CAS Number: 161058-83-9

IUPAC Name: 6-(Cyclohexylmethoxy)-9H-purin-2-amine

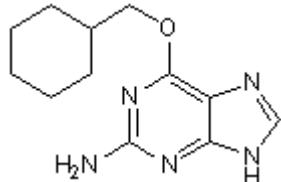
Description:

Cyclin-dependent kinase (cdk) 1 and cdk2 inhibitor (K_i values are 5 and 12 μ M respectively). Inhibits growth of human tumor cells *in vitro* (mean GI_{50} = 13 μ M). Also inhibits DNA topoisomerase II ATPase activity (IC_{50} = 300 μ M).

Physical and Chemical Properties:Batch Molecular Formula: $C_{12}H_{17}N_5O_{3/4}H_2O$

Batch Molecular Weight: 260.81

Physical Appearance: White solid

Minimum Purity: >99%**Batch Molecular Structure:****Storage:** Store at +4°C**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:

Arris *et al* (2000) Identification of novel purine and pyrimidine cyclin-dependent kinase inhibitors with distinct molecular interactions and tumor cell growth inhibition profiles. *J.Med.Chem.* **43** 2797. PMID: 10956187.

Knockaert *et al* (2002) Pharmacological inhibitors of cyclin-dependent kinases. *TiPS* **23** 417. PMID: 12237154.

Jensen *et al* (2005) Substituted purine analogues define a novel structural class of catalytic topoisomerase II inhibitors. *Cancer Res.* **65** 7470. PMID: 16103101.

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