

## Certificate of Analysis

**Product Name:** NU 2058

**Catalog No.:** 3135

**Batch No.:** 1

CAS Number: 161058-83-9

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

### 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:**  $C_{12}H_{17}N_5O \cdot \frac{3}{4}H_2O$

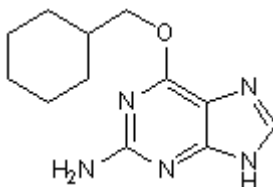
**Batch Molecular Weight:** 260.81

**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

**<sup>1</sup>H 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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**Description:**

Cyclin-dependent kinase (cdk) 1 and cdk2 inhibitor ( $K_i$  values are 5 and 12  $\mu\text{M}$  respectively). Inhibits growth of human tumor cells in vitro (mean  $\text{GI}_{50}$  = 13  $\mu\text{M}$ ). Also inhibits DNA topoisomerase II ATPase activity ( $\text{IC}_{50}$  = 300  $\mu\text{M}$ ).

**Physical and Chemical Properties:**

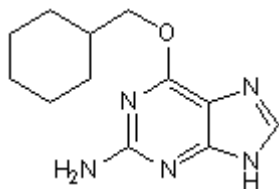
Batch Molecular Formula:  $\text{C}_{12}\text{H}_{17}\text{N}_5\text{O} \cdot \frac{3}{4}\text{H}_2\text{O}$

Batch Molecular Weight: 260.81

Physical Appearance: White solid

**Minimum Purity:** >99%

**Batch Molecular Structure:**



**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.

**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.

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