

## Certificate of Analysis

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**Product Name:** NU 1025

**Catalog No.:** 1401

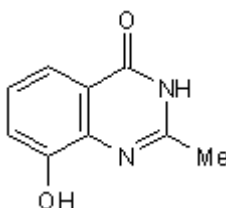
**Batch No.:** 2

CAS Number: 90417-38-2

IUPAC Name: 8-Hydroxy-2-methyl-4(3H)-quinazolinone

### 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>9</sub>H<sub>8</sub>N<sub>2</sub>O<sub>2</sub>  
**Batch Molecular Weight:** 176.17  
**Physical Appearance:** Off-white solid  
**Solubility:** 1eq. NaOH to 100 mM  
 1eq. HCl to 100 mM  
 DMSO to 100 mM  
**Storage:** Store at RT  
**Batch Molecular Structure:**



### 2. ANALYTICAL DATA

**TLC:** R<sub>f</sub> = 0.3 (Dichloromethane:Methanol [98:2])  
**Melting Point:** At 266°C  
**HPLC:** Shows >99.7% purity  
<sup>1</sup>H NMR: Consistent with structure  
**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	61.36	4.58	15.9
Found	61.29	4.59	15.95

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

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IUPAC Name: 8-Hydroxy-2-methyl-4(3*H*)-quinazolinone

**Description:**

Novel, potent inhibitor of poly(ADP-ribose) polymerase (PARP).  
K<sub>i</sub> and IC<sub>50</sub> values are 48 and 400 nM respectively.

**Physical and Chemical Properties:**

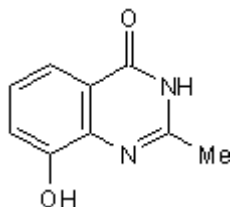
Batch Molecular Formula: C<sub>9</sub>H<sub>8</sub>N<sub>2</sub>O<sub>2</sub>

Batch Molecular Weight: 176.17

Physical Appearance: Off-white solid

**Minimum Purity:** >99%

**Batch Molecular Structure:**



**Storage:** Store at RT

**Solubility & Usage Info:**

1eq. NaOH to 100 mM

1eq. HCl to 100 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:**

**Bowman *et al*** (1998) Potentiation of anti-cancer agent cytotoxicity by the potent poly(ADP-ribose) polymerase inhibitors NU1025 and NU1064. *Br.J.Cancer.* **78** 1269. PMID: 9823965.

**Griffin *et al*** (1998) Resistance-modifying agents. 5. Synthesis and biological properties of quinazolinone inhibitors of the DNA repair enzyme poly(ADP-ribose) polymerase (PARP). *J.Med.Chem.* **41** 5247. PMID: 9857092.

**Delaney *et al*** (2000) Potentiation of temozolomide and topotecan growth inhibition and cytotoxicity by novel poly(adenosine diphosphoribose) polymerase inhibitors in a panel of human tumor cell lines. *Clin.Cancer.Res.* **6** 2860. PMID: 10914735.

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