1. PHYSICAL AND CHEMICAL PROPERTIES

   Batch Molecular Formula: \( \text{C}_{15}\text{H}_{18}\text{N}_{6}\text{O} \cdot \frac{1}{4}\text{H}_{2}\text{O} \)

   Batch Molecular Weight: 302.8438

   Physical Appearance: White solid

   Solubility: ethanol to 50 mM

   Storage: Desiccate at -20°C

   Batch Molecular Structure:

2. ANALYTICAL DATA

   TLC: \( R_f = 0.51 \) (Dichloromethane:Methanol [10:1])

   Melting Point: Between 142 - 145°C

   \(^1\text{H} \) NMR: Consistent with structure

   Microanalysis:

<table>
<thead>
<tr>
<th></th>
<th>Theoretical</th>
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<tbody>
<tr>
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<tr>
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</table>

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use
**Product Name:** Olomoucine  
**Catalog No.:** 1284  
**Batch No.:** 1  

**CAS Number:** 101622-51-9  
**IUPAC Name:** 6-(Benzylamino)-2-(2-hydroxyethylamino)-9-methylpurine

**Description:**  
ATP-competitive cyclin-dependent kinase (cdk) inhibitor (reported IC₅₀ values are 0.6 and 0.94 - 8 μM for cdk7 and cdk2 respectively, and >1 μM for cdk1 and cdk9. Induces cell cycle arrest at G1 in human fibroblasts.

**Physical and Chemical Properties:**  
Batch Molecular Formula: C₁₅H₁₈N₆O.¼H₂O  
Batch Molecular Weight: 302.8438  
Physical Appearance: White solid

**Batch Molecular Structure:**

![Batch Molecular Structure](image)

**Storage:** Desiccate at -20°C

**Solubility & Usage Info:**  
ethanol to 50 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:**  