Product Name: NSC 693868
CAS Number: 40254-90-8
IUPAC Name: 1H-Pyrazolo[3,4-b]quinoxalin-3-amine

1. PHYSICAL AND CHEMICAL PROPERTIES

   Batch Molecular Formula: \( \text{C}_9\text{H}_7\text{N}_5 \)
   Batch Molecular Weight: 185.19
   Physical Appearance: Red crystalline solid
   Solubility: DMSO to 100 mM
   Storage: Store at +4°C
   Batch Molecular Structure:

   ![Molecular Structure Image]

2. ANALYTICAL DATA

   TLC: \( R_f = 0.61 \) (Dichloromethane:Methanol [9:1])
   Melting Point: Between 272 - 274°C
   HPLC: Shows 100% purity
   \(^1\text{H NMR:}\) Consistent with structure
   Microanalysis:

<table>
<thead>
<tr>
<th>Element</th>
<th>Theoretical</th>
<th>Found</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon</td>
<td>58.37</td>
<td>58.51</td>
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<tr>
<td>Hydrogen</td>
<td>3.81</td>
<td>3.82</td>
</tr>
<tr>
<td>Nitrogen</td>
<td>37.82</td>
<td>37.68</td>
</tr>
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</table>

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

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**Product Information**

**Product Name:** NSC 693868  
**Catalog No.:** 1937  
**Batch No.:** 2

**CAS Number:** 40254-90-8  
**IUPAC Name:** 1H-Pyrazolo[3,4-b]quinolin-3-amine

**Description:**  
Inhibitor of cyclin-dependent kinases (cdks) and glycogen synthase kinase-3 (GSK-3). IC₅₀ values are 0.6, 0.4 and 1 μM for cdk1/cyclin B, cdk5/p25 and GSK-3 respectively.

**Physical and Chemical Properties:**
- **Batch Molecular Formula:** C₁₀H₇N₅  
- **Batch Molecular Weight:** 185.19  
- **Physical Appearance:** Red crystalline solid  
- **Minimum Purity:** >99%

**Storage:** Store at +4°C  
**CAUTION** - This product is light sensitive and we recommend that the solid material and any solutions obtained are protected from exposure to light.

**Solubility & Usage Info:**  
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:**
  PMID: 11983514.