1. PHYSICAL AND CHEMICAL PROPERTIES

   Batch Molecular Formula: \(\text{C}_{18}\text{H}_{10}\text{Cl}_{2}\text{N}_{4}\text{OS} \cdot \frac{1}{2}\text{H}_{2}\text{O}\)

   Batch Molecular Weight: 414.78

   Physical Appearance: Pale orange solid

   Solubility: DMSO to 100 mM

   Storage: Store at +4°C

   Batch Molecular Structure:

   ![Molecular Structure Image]

2. ANALYTICAL DATA

   HPLC: Shows 99.4% purity

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

   Mass Spectrum: Consistent with structure

   Microanalysis:

<table>
<thead>
<tr>
<th></th>
<th>Carbon</th>
<th>Hydrogen</th>
<th>Nitrogen</th>
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<tr>
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<td>52.12</td>
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<tr>
<td>Found</td>
<td>52.34</td>
<td>2.59</td>
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</table>
**Product Name:** GSK 626616  
**Catalog No.:** 6638  
**Batch No.:** 1

**CAS Number:** 1025821-33-3  
**IUPAC Name:** (5Z)-2-[(2,6-Dichlorophenyl)amino]-5-(6-quinoxalinylmethylene)-4(5H)-thiazolone

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**Description:**
Potent and selective DYRK inhibitor (IC₅₀ = 0.7 nM for DYRK3, similar potency for DYRK1 and 2). Exhibits ~20-fold selectivity over casein kinase 2 and negligible activity against a panel of 451 kinases screened. Enhances number of CFU-E stimulated by Epo from human marrow. Increases hemoglobin levels in anemic mice. Orally bioavailable.

**Physical and Chemical Properties:**

- **Batch Molecular Formula:** C₁₈H₁₄Cl₂N₂O₅S.¾H₂O  
- **Batch Molecular Weight:** 414.78  
- **Physical Appearance:** Pale orange solid  
- **Minimum Purity:** >98%  

**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.

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**References:**


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