**GSK-626616**

**Cat. No.:** HY-105309  
**CAS No.:** 1025821-33-3  
**Molecular Formula:** C₁₈H₁₀Cl₂N₄OS  
**Molecular Weight:** 401.27  
**Target:** DYRK  
**Pathway:** Protein Tyrosine Kinase/RTK  
**Storage:**  
- Powder: -20°C for 3 years, 4°C for 2 years  
- In solvent: -80°C for 6 months, -20°C for 1 month

### SOLVENT & SOLUBILITY

**In Vitro**  
DMSO: 50 mg/mL (124.60 mM; Need ultrasonic)

<table>
<thead>
<tr>
<th>Preparing Stock Solutions</th>
<th>Solvent Concentration</th>
<th>Mass (mg/mL)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 mM</td>
<td></td>
<td>2.4921 mL</td>
</tr>
<tr>
<td>5 mM</td>
<td></td>
<td>0.4984 mL</td>
</tr>
<tr>
<td>10 mM</td>
<td></td>
<td>0.2492 mL</td>
</tr>
</tbody>
</table>

**Concentration**  
- 1 mg  
- 5 mg  
- 10 mg

<table>
<thead>
<tr>
<th>Solvent</th>
<th>1 mg</th>
<th>5 mg</th>
<th>10 mg</th>
</tr>
</thead>
<tbody>
<tr>
<td>DMSO</td>
<td>2.4921 mL</td>
<td>12.4604 mL</td>
<td>24.9209 mL</td>
</tr>
</tbody>
</table>

Please refer to the solubility information to select the appropriate solvent.

### BIOLOGICAL ACTIVITY

**Description**  
GSK-626616 is a potent, orally bioavailable inhibitor of **DYRK3** (IC₅₀=0.7 nM). GSK-626616 inhibits other members of the DYRK family (e.g., DYRK1A and DYRK2) with similar potency, which is a potential therapy for the treatment of anemia[1].

**IC₅₀ & Target**  
IC₅₀: 0.7 nM (DYRK3)[1]

### REFERENCES
