**ALK-IN-1**

**Cat. No.:** HY-13464  
**CAS No.:** 1197958-12-5  
**Molecular Formula:** C₂₆H₃₄ClN₆O₂P  
**Molecular Weight:** 529.01  
**Target:** ALK  
**Pathway:** Protein Tyrosine Kinase/RTK  
**Storage:**  
- Powder: -20°C, 3 years; 4°C, 2 years  
- In solvent: -80°C, 6 months; -20°C, 1 month

**SOLVENT & SOLUBILITY**

<table>
<thead>
<tr>
<th>Solvent &amp; Concentration</th>
<th>1 mg</th>
<th>5 mg</th>
<th>10 mg</th>
</tr>
</thead>
<tbody>
<tr>
<td>DMSO (1 mM)</td>
<td>1.8903 mL</td>
<td>9.4516 mL</td>
<td>18.9032 mL</td>
</tr>
<tr>
<td>DMSO (5 mM)</td>
<td>0.3781 mL</td>
<td>1.8903 mL</td>
<td>3.7806 mL</td>
</tr>
<tr>
<td>DMSO (10 mM)</td>
<td>0.1890 mL</td>
<td>0.9452 mL</td>
<td>1.8903 mL</td>
</tr>
</tbody>
</table>

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

**In Vivo**

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline  
   Solubility: ≥ 2.5 mg/mL (4.73 mM); Clear solution

2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
   Solubility: ≥ 2.5 mg/mL (4.73 mM); Clear solution

3. Add each solvent one by one: 10% DMSO >> 90% corn oil  
   Solubility: ≥ 2.5 mg/mL (4.73 mM); Clear solution

**BIOLOGICAL ACTIVITY**

**Description**  
ALK-IN-1 is a potent and selective active inhibitor of anaplastic lymphoma kinase (ALK), Patent US20140066406 A1.

**CUSTOMER VALIDATION**

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REFERENCES

[1]. Sen Zhang, Frank Wang, Jeffrey Keats, Abstract LB-298: AP26113, a potent ALK inhibitor, overcomes mutations in EML4-ALK that confer resistance to PF-02341066 (PF1066). Cancer Research: April 15, 2010; Volume 70, Issue 8, Supplement 1

[2]. Victor M. Rivera, Frank Wang, Rana Anjum, Abstract 1794: AP26113 is a dual ALK/EGFR inhibitor: Characterization against EGFR T790M in cell and mouse models of NSCLC. Cancer Research: April 15, 2012; Volume 72, Issue 8, Supplement 1

Caution: Product has not been fully validated for medical applications. For research use only.
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