ALK inhibitor 1

Cat. No.: HY-15357
CAS No.: 761436-81-1
Molecular Formula: C_{23}H_{28}BrN_{7}O_{3}S
Molecular Weight: 562.48
Target: ALK
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: ≥ 100 mg/mL (177.78 mM)
H_{2}O: < 0.1 mg/mL (insoluble)

* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions

<table>
<thead>
<tr>
<th>Preparing Stock Solutions</th>
<th>Solvent</th>
<th>Mass</th>
<th>1 mg</th>
<th>5 mg</th>
<th>10 mg</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 mM</td>
<td></td>
<td></td>
<td>1.7778 mL</td>
<td>8.8892 mL</td>
<td>17.7784 mL</td>
</tr>
<tr>
<td>5 mM</td>
<td></td>
<td></td>
<td>0.3556 mL</td>
<td>1.7778 mL</td>
<td>3.5557 mL</td>
</tr>
<tr>
<td>10 mM</td>
<td></td>
<td></td>
<td>0.1778 mL</td>
<td>0.8889 mL</td>
<td>1.7778 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 (4.44 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (4.44 mM); Clear solution

BIOLOGICAL ACTIVITY

Description
ALK inhibitor 1 is a novel and selective inhibitor for the ALK kinase.

CUSTOMER VALIDATION

Product Data Sheet
REFERENCES

[1]. A Dose Finding Study With Oral LDK378 in Patients With Tumors Characterized by Genetic Abnormalities in Anaplastic Lymphoma Kinase (ALK).