A-770041

Cat. No.: HY-11011
CAS No.: 869748-10-7
Molecular Formula: C₃₄H₃₉N₉O₃
Molecular Weight: 621.73
Target: Src
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**

**In Vitro**

DMSO : ≥ 100 mg/mL (160.84 mM)
*“≥” means soluble, but saturation unknown.*

<table>
<thead>
<tr>
<th>Preparing Stock Solutions</th>
<th>Solvent Concentration</th>
<th>1 mg</th>
<th>5 mg</th>
<th>10 mg</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1 mM</td>
<td>1.6084 mL</td>
<td>8.0421 mL</td>
<td>16.0842 mL</td>
</tr>
<tr>
<td></td>
<td>5 mM</td>
<td>0.3217 mL</td>
<td>1.6084 mL</td>
<td>3.2168 mL</td>
</tr>
<tr>
<td></td>
<td>10 mM</td>
<td>0.1608 mL</td>
<td>0.8042 mL</td>
<td>1.6084 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 (4.02 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (4.02 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (4.02 mM); Clear solution

**BIOLOGICAL ACTIVITY**

Description
A-770041 is selective and orally active Src-family Lck inhibitor; A-770041 is a 147 nM inhibitor of Lck (1 mM ATP) and is 300-fold selective against Fyn, the other Src family kinase involved in T-cell signaling.IC50 value: 147 nMTarget: Lck

**REFERENCES**

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