FLT3-IN-6

Cat. No.: HY-128572
CAS No.: 2377141-31-4
Molecular Formula: C₂₃H₂₅N₅O₃
Molecular Weight: 419.48
Target: FLT3
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: 250 mg/mL (595.98 mM; Need ultrasonic)

<table>
<thead>
<tr>
<th>Preparing Stock Solutions</th>
<th>Solvent</th>
<th>Mass</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mass</td>
<td>1 mg</td>
<td>5 mg</td>
</tr>
<tr>
<td>1 mM</td>
<td>2.3839 mL</td>
<td>11.9195 mL</td>
</tr>
<tr>
<td>5 mM</td>
<td>0.4768 mL</td>
<td>2.3839 mL</td>
</tr>
<tr>
<td>10 mM</td>
<td>0.2384 mL</td>
<td>1.1920 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: ≥ 2.08 mg/mL (4.96 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.08 mg/mL (4.96 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.08 mg/mL (4.96 mM); Clear solution

**BIOLOGICAL ACTIVITY**

**Description**
FLT3-IN-6 is a potent and selective inhibitor of FLT3-ITD (FLT3 mutation) with an IC₅₀ of 1.336 nM[^1].

**IC₅₀ & Target**
IC₅₀: 1.336 nM (FLT3-ITD)[^1]

**REFERENCES**