AST2818 mesylate

Cat. No.: HY-112870A
CAS No.: 2130958-55-1
Molecular Formula: C₂₉H₃₅F₃N₈O₅S
Molecular Weight: 664.7
Target: EGFR
Pathway: JAK/STAT Signaling; 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 : 5 mg/mL (7.52 mM; Need ultrasonic)

<table>
<thead>
<tr>
<th>Solvent Concentration</th>
<th>1 mg</th>
<th>5 mg</th>
<th>10 mg</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 mM</td>
<td>1.5044 mL</td>
<td>7.5222 mL</td>
<td>15.0444 mL</td>
</tr>
<tr>
<td>5 mM</td>
<td>0.3009 mL</td>
<td>1.5044 mL</td>
<td>3.0089 mL</td>
</tr>
<tr>
<td>10 mM</td>
<td>---</td>
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</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: ≥ 0.5 mg/mL (0.75 mM); Clear solution
2. Add each solvent one by one: **10% DMSO** >> **90% (20% SBE-β-CD in saline)**
   - Solubility: ≥ 0.5 mg/mL (0.75 mM); Clear solution
3. Add each solvent one by one: **10% DMSO** >> **90% corn oil**
   - Solubility: ≥ 0.5 mg/mL (0.75 mM); Clear solution

BIOLOGICAL ACTIVITY

Description
AST2818 mesylate is an EGFR inhibitor.

IC₅₀ & Target
EGFR

In Vitro
AST2818 mesylate is designed to inhibit EGFR active mutations as well as the T790M acquired resistant mutation[1].