Vicagrel

Cat. No.: HY-118284
CAS No.: 1314081-53-2
Molecular Formula: C₁₈H₁₈ClNO₄S
Molecular Weight: 379.86
Target: P2Y Receptor
Pathway: GPCR/G Protein
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 (658.14 mM; Need ultrasonic)

Preparing Stock Solutions

<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>2.6325 mL</td>
<td>13.1627 mL</td>
<td>26.3255 mL</td>
</tr>
<tr>
<td>5 mM</td>
<td>0.5265 mL</td>
<td>2.6325 mL</td>
<td>5.2651 mL</td>
</tr>
<tr>
<td>10 mM</td>
<td>0.2633 mL</td>
<td>1.3163 mL</td>
<td>2.6325 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 (5.48 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Vicagrel, an acetate derivative of Clopidogrel, is a P2Y12 platelet inhibitor potentially for the treatment of thrombosis, the substrate of carboxylesterase 2 (CES2)[1]. Vicagrel demonstrates a favorable safety profile and excellent anti-platelet activity, which could be an anti-platelet drug and for the unmet medical needs of cardiovascular diseases[2].

REFERENCES

