Avasimibe

Cat. No.: HY-13215
CAS No.: 166518-60-1
Molecular Formula: C₂₉H₄₃NO₄S
Molecular Weight: 501.72
Target: Acyltransferase
Pathway: Metabolic Enzyme/Protease
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 : ≥ 28 mg/mL (55.81 mM)
H₂O : < 0.1 mg/mL (insoluble)
* "≥" means soluble, but saturation unknown.

<table>
<thead>
<tr>
<th>Preparing Stock Solutions</th>
<th>Solvent 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>1.9931 mL</td>
<td>9.9657 mL</td>
<td>19.9314 mL</td>
</tr>
<tr>
<td>5 mM</td>
<td></td>
<td>0.3986 mL</td>
<td>1.9931 mL</td>
<td>3.9863 mL</td>
</tr>
<tr>
<td>10 mM</td>
<td></td>
<td>0.1993 mL</td>
<td>0.9966 mL</td>
<td>1.9931 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: ≥ 2.25 mg/mL (4.48 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: 2.25 mg/mL (4.48 mM); Suspended solution; Need ultrasonic
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.25 mg/mL (4.48 mM); Clear solution

BIOLOGICAL ACTIVITY

Description
Avasimibe is an oral inhibitor of acyl-Coenzyme A:cholesterol acyltransferase (ACAT) with IC₅₀s of 24 and 9.2 µM for ACAT1 and ACAT2, respectively.
CUSTOMER VALIDATION


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REFERENCES

