**Sinensetin**

**Cat. No.:** HY-N0297  
**CAS No.:** 2306-27-6  
**Molecular Formula:** C₂₀H₂₀O₇  
**Molecular Weight:** 372.37  
**Target:** PGE synthase; TNF Receptor  
**Pathway:** Immunology/Inflammation; Apoptosis  
**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: 12.5 mg/mL (33.57 mM; Need ultrasonic)

<table>
<thead>
<tr>
<th>Preparing Stock Solutions</th>
<th>Mass 1 mg</th>
<th>Mass 5 mg</th>
<th>Mass 10 mg</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 mM</td>
<td>2.6855 mL</td>
<td>13.4275 mL</td>
<td>26.8550 mL</td>
</tr>
<tr>
<td>5 mM</td>
<td>0.5371 mL</td>
<td>2.6855 mL</td>
<td>5.3710 mL</td>
</tr>
<tr>
<td>10 mM</td>
<td>0.2686 mL</td>
<td>1.3428 mL</td>
<td>2.6855 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: ≥ 1.25 mg/mL (3.36 mM); Clear solution  
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
   Solubility: ≥ 1.25 mg/mL (3.36 mM); Clear solution  
3. Add each solvent one by one: 10% DMSO >> 90% corn oil  
   Solubility: ≥ 1.25 mg/mL (3.36 mM); Clear solution

**BIOLOGICAL ACTIVITY**

**Description**  
Sinensetin is a methylated flavone found in certain citrus fruits. Possess potent antiangiogenesis and anti-inflammatory, sinensetin enhances adipogenesis and lipolysis. In vitro: Sinensetin promotes adipogenesis in 3T3-L1 preadipocytes growing in incomplete differentiation medium, sinensetin enhances adipogenesis and lipolysis by increasing cAMP levels. [1] Sinensetin shows anti-inflammatory activity by regulating the protein level of inhibitor κB-α (IκB-α). [2] In vivo: Sinensetin has the most potent antiangiogenesis activity and the lowest toxicity, inhibits angiogenesis by inducing cell cycle arrest in the G0/G1 phase in HUVEC culture and downregulating the mRNA expressions of angiogenesis genes flt1, kdrl, and hras in zebrafish. [3]
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REFERENCES

