Neobavaisoflavone

**Cat. No.:** HY-N0720  
**CAS No.:** 41060-15-5  
**Molecular Formula:** C₂₀H₁₈O₄  
**Molecular Weight:** 322.35  
**Target:** Others  
**Pathway:** Others  
**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: ≥ 31 mg/mL (96.17 mM)  
* "≥" means soluble, but saturation unknown.

<table>
<thead>
<tr>
<th>Preparing Stock Solutions</th>
<th>Solvent</th>
<th>Mass</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Concentration</td>
<td>1 mg</td>
</tr>
<tr>
<td>1 mM</td>
<td></td>
<td>3.1022 mL</td>
</tr>
<tr>
<td>5 mM</td>
<td></td>
<td>0.6204 mL</td>
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<tr>
<td>10 mM</td>
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<td>0.3102 mL</td>
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</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 (6.45 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% corn oil  
   Solubility: ≥ 2.08 mg/mL (6.45 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
   Solubility: ≥ 2.08 mg/mL (6.45 mM); Clear solution

**BIOLOGICAL ACTIVITY**

**Description**

Neobavaisoflavone, an isoflavone isolated from Psoralea corylifolia, has striking anti-inflammatory and anti-cancer effects. IC₅₀ value: 42.93 μM (toward CCRF-CEM cells); 114.64 μM [against HCT116 (p53(+/+)) cells] [2]

In vitro: In the cancer cells, neobavaisoflavone sensitizes human U373MG glioma cells to TRAIL-mediated apoptosis; upregulated DR5 expression; induced TRAIL-mediated apoptosis in human glioma cells by suppressing migration and invasion, and by inhibiting anoikis resistance [1]. In caner cell lines, neobavaisoflavone is selectively active, and IC₅₀
values below 115 μM were obtained on 6/9 cell lines, with values ranging from 42.93 μM (toward CCRF-CEM cells) to 114.64 μM [against HCT116 (p53(+/+)) cells] [2]. In vivo:

REFERENCES


Caution: Product has not been fully validated for medical applications. For research use only.
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