**OBA-09**

**Cat. No.:** HY-12840  
**CAS No.:** 856095-68-6  
**Molecular Formula:** C₁₀H₈O₅  
**Molecular Weight:** 208.17  
**Target:** Reactive Oxygen Species  
**Pathway:** Immunology/Inflammation; Metabolic Enzyme/Protease; NF-κB  
**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 : ≥ 100 mg/mL (480.38 mM)  
* "≥" means soluble, but saturation unknown.

<table>
<thead>
<tr>
<th>Preparing Stock Solutions</th>
<th>Solvent Concentration</th>
<th>Mass 1 mg</th>
<th>Mass 5 mg</th>
<th>Mass 10 mg</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1 mM</td>
<td>4.8038 mL</td>
<td>24.0188 mL</td>
<td>48.0377 mL</td>
</tr>
<tr>
<td></td>
<td>5 mM</td>
<td>0.9608 mL</td>
<td>4.8038 mL</td>
<td>9.6075 mL</td>
</tr>
<tr>
<td></td>
<td>10 mM</td>
<td>0.4804 mL</td>
<td>2.4019 mL</td>
<td>4.8038 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: ≥ 2.5 mg/mL (12.01 mM); Clear solution  
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
   Solubility: ≥ 2.5 mg/mL (12.01 mM); Clear solution  
3. Add each solvent one by one: 10% DMSO >> 90% corn oil  
   Solubility: ≥ 2.5 mg/mL (12.01 mM); Clear solution

### BIOLOGICAL ACTIVITY

**Description**  
OBA-09, a simple ester of pyruvate and salicylic acid, is potent multi-modal neuroprotectant. OBA-09 has anti-oxidative and anti-inflammatory effects\(^1\)[\(^2\)].

### REFERENCES

**Product Data Sheet**

**Screening Libraries**

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