Okanin

Cat. No.: HY-N6673
CAS No.: 484-76-4
Molecular Formula: C₁₅H₁₂O₆
Molecular Weight: 288.25
Target: Toll-like Receptor (TLR); NF-κB
Pathway: Immunology/Inflammation; NF-κB
Storage: 4°C, protect from light

* In solvent: -80°C, 6 months; -20°C, 1 month (protect from light)

SOLVENT & SOLUBILITY

In Vitro
DMSO: 16.67 mg/mL (57.83 mM; Need ultrasonic)

<table>
<thead>
<tr>
<th>Preparing Stock Solutions</th>
<th>Solvent Concentration</th>
<th>Mass</th>
<th>1 mg</th>
<th>5 mg</th>
<th>10 mg</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1 mM</td>
<td></td>
<td>3.4692 mL</td>
<td>17.3461 mL</td>
<td>34.6921 mL</td>
</tr>
<tr>
<td></td>
<td>5 mM</td>
<td></td>
<td>0.6938 mL</td>
<td>3.4692 mL</td>
<td>6.9384 mL</td>
</tr>
<tr>
<td></td>
<td>10 mM</td>
<td></td>
<td>0.3469 mL</td>
<td>1.7346 mL</td>
<td>3.4692 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 >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.5 mg/mL (8.67 mM); Clear solution

BIOLOGICAL ACTIVITY

Description
Okanin, effective constituent of the flower tea Coreopsis tinctoria, attenuates LPS-induced microglial activation through inhibition of the TLR4/NF-κB signaling pathways.[1]

IC₅₀ & Target
<table>
<thead>
<tr>
<th>TLR4</th>
<th>p65</th>
</tr>
</thead>
</table>

In Vitro
Okanin significantly inhibits LPS-induced TLR4 expression in BV-2 cells. Okanin inhibits the translocation of the NF-κB p65 subunit from the cytosol to the nucleus. Okanin significantly suppresses LPS-induced iNOS expression and also inhibits IL-6 and TNF-α production and mRNA expression in LPS-stimulated BV-2 cells.[1]

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

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REFERENCES