Podocarpusflavone A

Cat. No.: HY-N2198
CAS No.: 22136-74-9
Molecular Formula: C₃₁H₂₀O₁₀
Molecular Weight: 552.48
Target: Topoisomerase
Pathway: Cell Cycle/DNA Damage
Storage: Please store the product under the recommended conditions in the COA.

Solvent & Solubility

<table>
<thead>
<tr>
<th>Concentration</th>
<th>1 mg</th>
<th>5 mg</th>
<th>10 mg</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 mM</td>
<td>1.8100 mL</td>
<td>9.0501 mL</td>
<td>18.1002 mL</td>
</tr>
<tr>
<td>5 mM</td>
<td>0.3620 mL</td>
<td>1.8100 mL</td>
<td>3.6200 mL</td>
</tr>
<tr>
<td>10 mM</td>
<td>0.1810 mL</td>
<td>0.9050 mL</td>
<td>1.8100 mL</td>
</tr>
</tbody>
</table>

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description
Podocarpusflavone A is a DNA topoisomerase I inhibitor, have moderated anti-proliferative activity induce cell apoptosis in MCF-7, is developing anti-tumor drug target: DNA topoisomerase I

In vitro: podocarpusflavone-A show significant inhibitions against DLD, KB, MCF-7, HEP-2 tumor cell lines (ED50 4.56-16.24 μg/mL) and induce cell apoptosis in MCF-7 via mainly sub-G1/S phase arrest. PF (40 μg/mL, 24 hr) significantly induced about 10 folds of cell deaths and growth arrest in S-phase than the control group.

IC₅₀ & Target
Topoisomerase I, IC50: 119.425 μM

REFERENCES


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