Alisol B 23-acetate

Cat. No.: HY-N0805
CAS No.: 26575-95-1
Molecular Formula: C₃₂H₅₀O₅
Molecular Weight: 514.74
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 10 mM in DMSO

<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>1 mM</td>
<td>1.9427 mL</td>
<td>9.7136 mL</td>
<td>19.4273 mL</td>
<td></td>
</tr>
<tr>
<td>5 mM</td>
<td>0.3885 mL</td>
<td>1.9427 mL</td>
<td>3.8855 mL</td>
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</tr>
<tr>
<td>10 mM</td>
<td>0.1943 mL</td>
<td>0.9714 mL</td>
<td>1.9427 mL</td>
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</tr>
</tbody>
</table>

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

BIOLOGICAL ACTIVITY

Description
Alisol B 23-acetate, a natural triterpenoid, produces protective effects against EE-induced cholestasis, due to FXR-mediated gene regulation. IC50 Value: Target: Anti-hepatotoxic natural product. In vitro: Alisol-B 23-acetate has an effect on FXR activation in a dose-dependent manner using luciferase reporter assay in HepG2 cells [3]. In vivo: In alisol B 23-acetate-treated mice, the changes in transporters and enzymes, as well as ameliorative liver histology were abrogated by FXR antagonist guggulsterone [1]. Alisol B 23-acetate treatment in a dose-dependent manner resulted in protection against hepatotoxicity induced by CCl4 via FXR activation. Through FXR activation, alisol B 23-acetate promoted hepatocyte proliferation via an induction in hepatic levels of FoxM1b, Cyclin D1 and Cyclin B1. Alisol B 23-acetate also reduced hepatic bile acids through a decrease in hepatic uptake transporter Ntcp, bile acid synthetic enzymes Cyp7a1, Cyp8b1, and an increase in efflux transporter Bsep, Mrp2 expression. In addition, alisol B 23-acetate induced the expression of STAT3 phosphorylation, and STAT3 target genes Bcl-xl and SOCS3, resulting in decreased hepatocyte apoptosis [2].

REFERENCES


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

Tel: 609-228-6898                  Fax: 609-228-5909                  E-mail: tech@MedChemExpress.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA