Product Name: Betulinic acid
Catalog No.: 3906
Batch No.: 1
CAS Number: 472-15-1
EC Number: 207-448-8
IUPAC Name: (+)-(3β)-3-Hydroxylup-20(29)-en-28-oic acid

1. PHYSICAL AND CHEMICAL PROPERTIES
Batch Molecular Formula: \( \text{C}_{30}\text{H}_{48}\text{O}_{3} \cdot \frac{3}{4}\text{H}_{2}\text{O} \)
Batch Molecular Weight: 461.2
Physical Appearance: White solid
Solubility: DMSO to 50 mM
Storage: Store at +4°C

2. ANALYTICAL DATA
\( ^1\text{H NMR} \): Consistent with structure
Mass Spectrum: Consistent with structure
Optical Rotation: \([\alpha]_D = +9.8 \) (Concentration = 1, Solvent = pyridine)
Microanalysis:

<table>
<thead>
<tr>
<th>Element</th>
<th>Theoretical</th>
<th>Found</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon</td>
<td>78.13</td>
<td>78.24</td>
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<tr>
<td>Hydrogen</td>
<td>10.6</td>
<td>10.7</td>
</tr>
<tr>
<td>Nitrogen</td>
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</tr>
</tbody>
</table>
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Description:
Natural triterpenoid that displays anti-HIV and antitumor activity. Induces the production of reactive oxygen species (ROS) and activates NF-κB. Exhibits TGR5 agonist activity (EC₅₀ = 1.04 μM).

Physical and Chemical Properties:
Batch Molecular Formula: C₃₀H₄₆O₅·¼H₂O
Batch Molecular Weight: 461.2
Physical Appearance: White solid

Physical and Chemical Properties:
Storage: Store at +4°C

Solubility & Usage Info:
DMSO to 50 mM

Stability and Solubility Advice:
Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).
Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:
SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.
SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References: