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

1. PHYSICAL AND CHEMICAL PROPERTIES

   Batch Molecular Formula: C_{30}H_{48}O_{3}·\frac{1}{4}H_{2}O
   Batch Molecular Weight: 461.2
   Physical Appearance: White solid
   Solubility: DMSO to 50 mM
   Storage: Store at +4°C
   Batch Molecular Structure:

   ![Molecular Structure](image)

2. ANALYTICAL DATA

   \(^1\)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>Carbon</th>
<th>Hydrogen</th>
<th>Nitrogen</th>
</tr>
</thead>
<tbody>
<tr>
<td>Theoretical 78.13</td>
<td>10.6</td>
<td></td>
</tr>
<tr>
<td>Found 78.24</td>
<td>10.7</td>
<td></td>
</tr>
</tbody>
</table>

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use
**Product Name:** Betulinic acid  
**CAS Number:** 472-15-1  
**IUPAC Name:** (+)-(3β)-3-Hydroxy lup-20(29)-en-28-oic acid

**Description:**
Natural triterpenoid that displays anti-HIV and antitumor activity. Induces the production of reactive oxygen species (ROS) and activates NF-κB. Also a GPBA receptor partial agonist (EC₅₀ = 1.04 μM, efficacy 83%).

**Physical and Chemical Properties:**
Batch Molecular Formula: C₃₀H₄₈O₅·½H₂O  
Batch Molecular Weight: 461.2  
Physical Appearance: White solid

**Batch Molecular Structure:**

![Batch Molecular Structure](Image)

**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 aliquotted 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:**