**Product Specification Sheet**

<table>
<thead>
<tr>
<th>Product Name:</th>
<th>Ursolic acid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Catalog Number:</td>
<td>C8776-10 (powder)</td>
</tr>
<tr>
<td>Package Size:</td>
<td>10 mg</td>
</tr>
</tbody>
</table>

### Technical information:

- **Chemical Formula:** C₃₀H₄₈O₃
- **CAS #:** 77-52-1
- **Molecular Weight:** 456.70
- **Purity:** >98%
- **Formulation:** white solid
- **Solubility:** Soluble in DMSO up to 100 mM
- **Chemical Name:** \((1S,2R,4aS,6aS,6bR,8aR,10S,12aR,12bR,14bS)-10-hydroxy-1,2,6a,6b,9,9,12a-heptamethyl-1,2,3,4,4a,5,6,6a,6b,7,8,8a,9,10,11,12,12a,12b,13,14b-icosahydropicene-4a-carboxylic acid\)
- **Storage:** Store solid powder at 4°C desiccated; Store DMSO solution at -20°C.

### Handling:

- For C8776-10 (powder), add 2.19 mL of DMSO to make 10 mM solution.

### Biological Activity:

Ursolic acid is a natural compound enriched in apples. It is capable of inhibiting various types of cancer cells by inhibiting the STAT3 activation pathway and human fibrosarcoma cells by reducing the expression of matrix metalloproteinase-9 by acting through the glucocorticoid receptor. Ursolic acid reduced muscle atrophy and stimulated muscle hypertrophy in mice by enhancing skeletal muscle insulin/IGF-I signaling and inhibiting atrophy-associated skeletal muscle mRNA expression.

### Reference:


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