**Baclofen**

Cat. No.: HY-B0007  
CAS No.: 1134-47-0  
Molecular Formula: C₁₀H₁₂ClNO₂  
Molecular Weight: 213.66  
Target: GABA Receptor  
Pathway: Membrane Transporter/Ion Channel; Neuronal Signaling  
Storage:  
- Powder: -20°C for 3 years, 4°C for 2 years  
- In solvent: -80°C for 6 months, -20°C for 1 month

**Solvent & Solubility**

<table>
<thead>
<tr>
<th>Preparing Stock Solutions</th>
<th>DMSO: &lt; 1 mg/mL (insoluble or slightly soluble)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solvent Concentration</td>
<td>1 mg</td>
</tr>
<tr>
<td>1 mM</td>
<td>4.6803 mL</td>
</tr>
<tr>
<td>5 mM</td>
<td>0.9361 mL</td>
</tr>
<tr>
<td>10 mM</td>
<td>0.4680 mL</td>
</tr>
</tbody>
</table>

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

**BIOLOGICAL ACTIVITY**

**Description**

Baclofen is a gamma-amino-butyric acid (GABA) derivative used as a skeletal muscle relaxant. Target: GABA Receptor  
Baclofen, a lipophilic analog of gamma-aminobutyric acid, is clinically used to control spasticity. Baclofen pretreatment (3 mg/kg) not only prolonged the time taken for animals to reach a core body temperature of 40 degrees C (P < 0.001), but also reduced the percentage of rats attaining a core body temperature of 40 degrees C [1]. Baclofen overdose may result in coma, apnea, autonomic disturbances, cardiac conduction abnormalities, and seizures. Levels obtained shortly after overdose correlate with length of mechanical ventilation [2].

**REFERENCES**


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

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