## Lacidipine

**Cat. No.:** HY-B0347  
**CAS No.:** 103890-78-4  
**Molecular Formula:** C₂₆H₃₃NO₆  
**Molecular Weight:** 455.54  
**Target:** Calcium Channel  
**Pathway:** Membrane Transporter/Ion Channel  
**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>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>2.1952 mL</td>
<td>10.9760 mL</td>
<td>21.9520 mL</td>
</tr>
<tr>
<td>5 mM</td>
<td>0.4390 mL</td>
<td>2.1952 mL</td>
<td>4.3904 mL</td>
</tr>
<tr>
<td>10 mM</td>
<td>0.2195 mL</td>
<td>1.0976 mL</td>
<td>2.1952 mL</td>
</tr>
</tbody>
</table>

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

### BIOLOGICAL ACTIVITY

**Description**  
Lacidipine (Lacipil, Motens) is a L-type calcium channel blocker. Target: Calcium Channel  
Lacidipine, a novel third-generation dihydropyridine calcium channel blocker, has been demonstrated effective for hypertension. Lacidipine protects HKCs against apoptosis induced by ATP depletion and recovery by regulating the caspase-3 pathway [1]. In biological membranes deriving from rat brain tissue, lacidipine showed an activity comparable to reference antioxidant compounds like vitamin E [2]. Lacidipine has some important protective effects on liver of hypertensive irradiated albino rats [3].

### REFERENCES