Fenoxaprop-P-ethyl

Cat. No.: HY-B2013
CAS No.: 71283-80-2
Molecular Formula: \( \text{C}_{18}\text{H}_{16}\text{ClNO}_5 \)
Molecular Weight: 361.78
Target: Others
Pathway: Others
Storage: Powder
-20°C 3 years
4°C 2 years
In solvent
-80°C 6 months
-20°C 1 month

SOLVENT & SOLUBILITY

In Vitro
DMSO: ≥ 100 mg/mL (276.41 mM)
* “≥” means soluble, but saturation unknown.

<table>
<thead>
<tr>
<th>Concentration</th>
<th>Mass (mL) 1 mg</th>
<th>Mass (mL) 5 mg</th>
<th>Mass (mL) 10 mg</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 mM</td>
<td>2.7641 mL</td>
<td>13.8206 mL</td>
<td>27.6411 mL</td>
</tr>
<tr>
<td>5 mM</td>
<td>0.5528 mL</td>
<td>2.7641 mL</td>
<td>5.5282 mL</td>
</tr>
<tr>
<td>10 mM</td>
<td>0.2764 mL</td>
<td>1.3821 mL</td>
<td>2.7641 mL</td>
</tr>
</tbody>
</table>

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

In Vivo
1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 2.5 mg/mL (6.91 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (6.91 mM); Clear solution

BIOLOGICAL ACTIVITY

Description
Fenoxaprop-P-ethyl is a post-emergent phenoxy herbicide of the aryloxyphenoxy propionate group.

REFERENCES