Product Name: Pregabalin
Catalog No.: 3775
Batch No.: 1
CAS Number: 148553-50-8
IUPAC Name: (S)-3-(Aminomethyl)-5-methylhexanoic acid

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: \( \text{C}_8\text{H}_{17}\text{NO}_2 \)
Batch Molecular Weight: 159.23
Physical Appearance: White solid
Solubility: water to 100 mM
Storage: Store at RT

2. ANALYTICAL DATA

\(^1\text{H NMR:}\) Consistent with structure
Mass Spectrum: Consistent with structure
Optical Rotation: \([\alpha]_D = +16\) (Concentration = 1, Solvent = Water)
Microanalysis:

<table>
<thead>
<tr>
<th>Element</th>
<th>Theoretical</th>
<th>Found</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon</td>
<td>60.35</td>
<td>60.43</td>
</tr>
<tr>
<td>Hydrogen</td>
<td>10.76</td>
<td>10.83</td>
</tr>
<tr>
<td>Nitrogen</td>
<td>8.80</td>
<td>8.85</td>
</tr>
</tbody>
</table>

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use
**Product Information**

**Product Name:** Pregabalin  
**CAS Number:** 148553-50-8  
**IUPAC Name:** (S)-3-(Aminomethyl)-5-methylhexanoic acid

**Description:**
Anticonvulsant and antiepileptic; also used to treat neuropathic pain. Binds with high affinity and selectivity to the αδ subunit of voltage-sensitive Ca2+ channels and modulates their activity. Displays anxiolytic-like activity in ethological and conflict models of anxiety. Analog of GABA (Cat. No. 0344).

**Physical and Chemical Properties:**
Batch Molecular Formula: C9H17NO2  
Batch Molecular Weight: 159.23  
Physical Appearance: White solid

**Batch Molecular Structure:**

![Molecular Structure](image)

**Storage:** Store at RT

**Solubility & Usage Info:**
water to 100 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 aliquoted 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.

**Other Information:**

INFORMATION FOR CUSTOMERS IN THE USA ONLY
This product is a Schedule V DEA controlled substance and customers in the USA are required to hold a controlled substance registration in order to purchase and possess this material (in accordance with Title 21 code of federal regulations part 1300 to end).

**References:**


---

**Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use**

bio-techne.com  |  info@bio-techne.com  |  techsupport@bio-techne.com
North America  |  Tel: (800) 343 7475
China  |  info.cn@bio-techne.com  |  Tel: +86 (21) 52380373
Europe Middle East Africa  |  Tel: +44 (0)1235 529449
Rest of World  |  www.tocris.com/distributors  |  Tel:+1 612 379 2956