1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: \( \text{C}_{21}\text{H}_{26}\text{N}_{2}\text{O}_{7} \)

Batch Molecular Weight: 418.45

Physical Appearance: Yellow solid

Solubility: DMSO to 100 mM, ethanol to 10 mM

Storage: Store at RT

2. ANALYTICAL DATA

HPLC: Shows 99.4% purity

\(^1\text{H} \text{NMR}: \) Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

<table>
<thead>
<tr>
<th></th>
<th>Theoretical</th>
<th>Found</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon</td>
<td>60.28</td>
<td>60.44</td>
</tr>
<tr>
<td>Hydrogen</td>
<td>6.26</td>
<td>6.32</td>
</tr>
<tr>
<td>Nitrogen</td>
<td>6.69</td>
<td>6.74</td>
</tr>
</tbody>
</table>
### Product Information

**Product Name:** Nimodipine  
**Catalog No.:** 0600  
**Batch No.:** 3

**CAS Number:** 66085-59-4  
**EC Number:** 266-127-0  
**IUPAC Name:** 1,4-Dihydro-2,6-dimethyl-4-(3-nitrophenyl)-3,5-pyridinedicarboxylic acid 2-methyloxyethyl 1-methylethyl ester

#### Description:
L-type Ca²⁺ channel blocker.

#### Physical and Chemical Properties:
- **Batch Molecular Formula:** C₂₁H₂₆N₂O₇  
- **Batch Molecular Weight:** 418.45  
- **Physical Appearance:** Yellow solid  
- **Minimum Purity:** >99%

#### Batch Molecular Structure:
![Batch Molecular Structure](image)

#### Storage:
Store at RT  
**CAUTION** - This product is light sensitive and we recommend that the solid material and any solutions obtained are protected from exposure to light.

#### Solubility & Usage Info:
- DMSO to 100 mM  
- Ethanol to 10 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.

#### References: