Product Name: Nifedipine
Catalog No.: 1075
Batch No.: 3

CAS Number: 21829-25-4
EC Number: 244-598-3
IUPAC Name: 1,4-Dihydro-2,6-dimethyl-4-(2-nitrophenyl)-3,5-pyridinedicarboxylic acid dimethyl ester

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: \( \text{C}_{17}\text{H}_{18}\text{N}_{2}\text{O}_{6} \)
Batch Molecular Weight: 346.34
Physical Appearance: Yellow solid
Solubility: DMSO to 100 mM
Storage: Desiccate at +4°C

2. ANALYTICAL DATA

HPLC: Shows 99.5% purity

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

Mass Spectrum: Consistent with structure

Microanalysis:

<table>
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<th>Element</th>
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<th>Found</th>
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<tr>
<td>Nitrogen</td>
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**Product Information**

**Product Name:** Nifedipine  
**CAS Number:** 21829-25-4  
**IUPAC Name:** 1,4-Dihydro-2,6-dimethyl-4-(2-nitrophenyl)-3,5-pyridinedicarboxylic acid dimethyl ester  
**Catalog No.:** 1075  
**EC Number:** 244-598-3  
**Batch No.:** 3

### Description:
L-type calcium channel blocker.

### Physical and Chemical Properties:
- **Batch Molecular Formula:** C₁₇H₁₈N₂O₆
- **Batch Molecular Weight:** 346.34
- **Physical Appearance:** Yellow solid
- **Minimum Purity:** >98%
- **Batch Molecular Structure:**

![Molecular Structure](image)

### Storage:
Desiccate at +4°C  
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

### 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:
- Merck Index 12 6617.

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<table>
<thead>
<tr>
<th>Region</th>
<th>Contact Information</th>
</tr>
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<tbody>
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<td>bio-techne.com</td>
<td><a href="mailto:info@bio-techne.com">info@bio-techne.com</a></td>
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<td>Tel: +44 (0)1235 529449</td>
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