Product Name: Nimodipine
CAS Number: 66085-59-4
IUPAC Name: 1,4-Dihydro-2,6-dimethyl-4-(3-nitrophenyl)-3,5-pyridinedicarboxylic acid 2-methoxyethyl 1-methylethyl ester

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
\(^1\)H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis: Carbon Hydrogen Nitrogen
Theoretical 60.28 6.26 6.69
Found 60.44 6.32 6.74
Product Name: Nimodipine

Description:
L-type Ca\(^{2+}\) channel blocker.

Physical and Chemical Properties:
- Batch Molecular Formula: C\(_{21}\)H\(_{26}\)N\(_2\)O\(_7\)
- Batch Molecular Weight: 418.45
- Physical Appearance: Yellow solid
- Minimum Purity: >99%

Solubility & Usage Info:
- DMSO to 100 mM
- ethanol to 10 mM

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.

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: