1. PHYSICAL AND CHEMICAL PROPERTIES

- **Batch Molecular Formula:** $C_{18}H_{20}N_{2}O_{6}$
- **Batch Molecular Weight:** 360.37
- **Physical Appearance:** Yellow crystalline solid
- **Solubility:** DMSO to 50 mM, ethanol to 25 mM
- **Storage:** Store at RT

2. ANALYTICAL DATA

- **TLC:** $R_f = 0.2$ (Chloroform)
- **Melting Point:** Between 157 - 158°C
- **HPLC:** Shows >99.3% purity
- **$^1$H NMR:** Consistent with structure
- **Mass Spectrum:** Consistent with structure

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use
Product Name: Nitrendipine

CAS Number: 39562-70-4
IUPAC Name: 1,4-Dihydro-2,6-dimethyl-4-(3-nitrophenyl)-3,5-pyridine dicarboxylic acid ethyl methyl ester

Description:
L-type calcium channel blocker. Induces autophagy.

Physical and Chemical Properties:
Batch Molecular Formula: C_{18}H_{20}N_{2}O_{5}
Batch Molecular Weight: 360.37
Physical Appearance: Yellow crystalline solid
Minimum Purity: >99%

Storage: Store at RT

Solubility & Usage Info:
DMSO to 50 mM
ethanol to 25 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 6667.