Nilvadipine, L-type calcium channel blocker ab141311

Overview

- **Product name**: Nilvadipine, L-type calcium channel blocker
- **Description**: Potent L-type calcium channel blocker
- **Biological description**: Potent L-type calcium channel blocker ($IC_{50} = 0.03 \text{nM}$). Antiatherogenic \textit{in vitro} and antihypertensive \textit{in vivo}.
- **Purity**: > 99%
- **CAS Number**: 75530-68-6
- **Chemical structure**:

  ![Chemical structure diagram]

  2-Cyano-1,4-dihydro-6-methyl-4-(3-nitrophenyl)-3,5-pyridinedicarboxylic acid 3-methyl 5-(1-methylethyl) ester

Properties

- **Chemical name**: 2-Cyano-1,4-dihydro-6-methyl-4-(3-nitrophenyl)-3,5-pyridinedicarboxylic acid 3-methyl 5-(1-methylethyl) ester
- **Molecular weight**: 385.38
- **Molecular formula**: $C_{19}H_{19}N_3O_6$
- **PubChem identifier**: 4494
- **Storage instructions**: Store at Room Temperature. The product can be stored for up to 12 months.
- **Solubility overview**: Soluble in DMSO to 100 mM and in ethanol to 100 mM
- **Handling**: Wherever possible, you should prepare and use solutions on the same day. However, if you need to make up stock solutions in advance, we recommend that you store the solution as aliquots in tightly sealed vials at -20°C. Generally, these will be useable for up to one month. Before use, and prior to opening the vial we recommend that you allow your product to equilibrate to room temperature for at least 1 hour.

Need more advice on solubility, usage and handling? Please visit our frequently asked questions (FAQ) page for more details.

- **SMILES**: CC=1NC(C#N)=C(C=C1C(=O)OC(C)C)c2cccc(c2)[N+]([O-]=O)C(=O)OC
- **Source**: Synthetic
Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES, NOT FOR USE IN HUMANS"

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