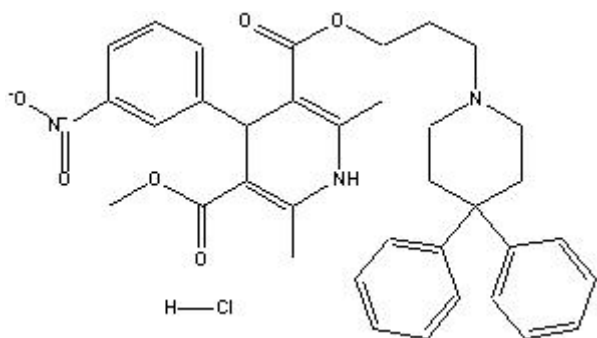


## TECHNICAL INFORMATION

Catalog Number: 159803

### Nimodipine

#### Structure:



**Molecular Formula:** C<sub>21</sub>H<sub>26</sub>N<sub>2</sub>O<sub>7</sub>

**Formula Weight:** 418.45 (anhyd.)

**CAS #** 66085-59-4

**Synonym:** 1,4-Dihydro-2,6-dimethyl-4-(3-nitrophenyl)-3,5-pyridinedicarboxylic acid 2-methoxyethyl 1-methylethyl ester

**Physical Properties:** White photosensitive solid; off white to yellow powder

**Description:** Potent calcium channel antagonist

**Storage:** Store tightly sealed at room temperature, protected from exposure to light.

**Solubility:** Soluble in methanol (62.5 mg/ml), DMSO (25 mg/ml), or dioxane; insoluble in aqueous solutions and 2-hydroxypropyl-β-cyclodextrin.

#### References:

- Merck Index **12th Ed.**, 6643.
- McCarthy, R.T., TanPiengo, P.E., "Multiple types of high-threshold calcium channels in rabbit sensory neurons: High affinity block of neuronal L-type by nimodipine." *J. Neurosci.*, **v. 12**, 2225-2234 (1992).
- Triggle, D.J., Rampe, D. "1,4-Dihydropyridine activators and antagonists: Structural and functional distinctions." *TIPS*, **v. 10**, 507-511 (1989).
- Dolin, S.J., Hunter, A.B., Halsey, M.J., Little, H.J. "Anticonvulsant profile of the dihydropyridine calcium channel antagonists, nitrendipine and nimodipine." *Eur. J. Pharmacol.*, **v. 152**, 19-27 (1988).
- Kappelle et al., *Brit. J. Pharm.*, **v.111**, 887 (1994)