Product Data Sheet

**Product Name:** Nilvadipine  
**CAS No.:** 75530-68-6  
**Cat. No.:** HY-14284  
**MWT:** 385.37  
**Formula:** C19H19N3O6  
**Purity:** >98%  

**Solubility:** DMSO 77 mg/mL; Water <1 mg/mL

**Mechanisms:**  
Pathways: Membrane Transporter/Ion Channel; Target: Calcium Channel

**Biological Activity:**  
Nilvadipine (FR34235) is a calcium channel blocker for treatment of hypertension.  
Target: Calcium Channel  
Nilvadipine is a new calcium antagonist of the dihydropyridine group. Nilvadipine is mainly excreted via the kidneys in the form of inactive metabolites. Nilvadipine can be used to treat hypertensive patients who are also suffering from diabetes mellitus, lipometabolic disturbances, chronic obstructive respiratory tract disease, or cerebral circulatory disturbances. Owing to its high vascular selectivity, antiatherogenic properties, 24-h action, and good tolerance, nilvadipine fulfills the requirements for a modern antihypertensive agent [1]. FR34235 was also the most potent among the calcium antagonists tested. The IC50 values were $3.3 \times 10^{-11}$ M for FR34235. FR34235 should be useful for preventing and treating atherosclerosis. Inhibition of smooth muscle cell m...