



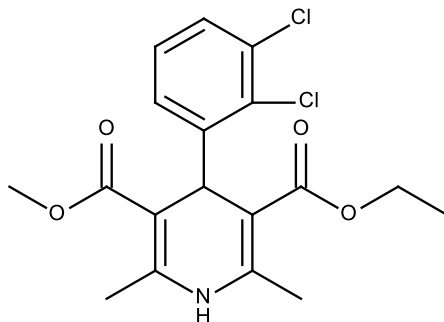
Catalog # 10-2020

Felodipine

CAS# 72509-76-3

3-Ethyl 5-methyl 4-(2,3-dichlorophenyl)-2,6-dimethyl-1,4-dihydropyridine-3,5-dicarboxylate

Lot # X101154



Felodipine is a potent L-type Ca^{2+} channel blocker that is selective over N-, R-, P/Q- and T-type channels.^{1,2} It displays high vascular selectivity over cardiac muscle, thus lowering arterial blood pressure without altering cardiac contractility. Felodipine is used in the clinic as an antihypertensive agent.

- 1) Todd and Faulds, (1992) *Felodipine. A review of the pharmacology and therapeutic use of the extended release formulation in cardiovascular disorders*; *Drugs* **44** 251
- 2) Furukawa *et al.*, (1999) *Selectivities of Dihydropyridine Derivatives in Blocking Ca^{2+} Channel Subtypes Expressed in Xenopus Oocytes*; *J.Pharmacol.Exp.Ther.* **291** 464

PHYSICAL DATA

Molecular Weight:	384.25
Molecular Formula:	$\text{C}_{18}\text{H}_{19}\text{Cl}_2\text{NO}_4$
Purity:	>98% by TLC
	NMR: (Conforms)
Solubility:	DMSO (up to 35 mg/ml); ethanol (up to 35 mg/mL)
Physical Description:	Yellow solid
Storage and Stability:	Store as supplied at room temperature for up to 1 year from the date of purchase. Solutions in DMSO or ethanol may be stored at -20°C for up to 3 months.

Materials provided by Focus Biomolecules are for laboratory research use only and are not intended for human or veterinary applications.

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