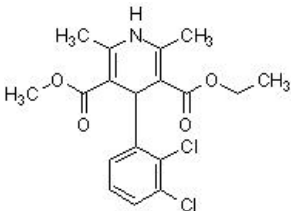


Product datasheet

Felodipine, L-type Ca²⁺ channel blocker ab141797

2 Images

Overview

Product name	Felodipine, L-type Ca ²⁺ channel blocker
Description	Selective L-type Ca ²⁺ channel blocker
Biological description	Selective L-type Ca ²⁺ channel blocker. Selective over N-, R-, P/Q- and T-type channels. Displays high vascular selectivity and shows antihypertensive effects <i>in vivo</i> . Orally active.
Purity	> 99%
CAS Number	72509-76-3
Chemical structure	

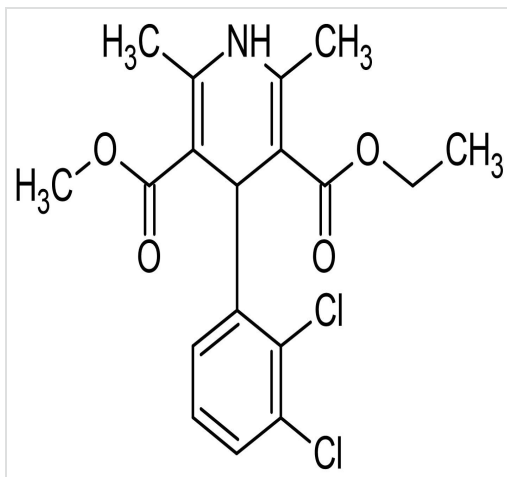
Properties

Chemical name	5-O-Ethyl 3-O-methyl-4-(2,3-dichlorophenyl)-2,6-dimethyl-1,4-dihydropyridine-3,5-dicarboxylate
Molecular weight	384.25
Molecular formula	C ₁₈ H ₁₉ Cl ₂ NO ₄
PubChem identifier	3333
Storage instructions	Store at -20°C. Store under desiccating conditions. The product can be stored for up to 12 months.
Solubility overview	Soluble in DMSO 100 mM and in ethanol to 100 mM
Handling	<p>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.</p> <p>Need more advice on solubility, usage and handling? Please visit our frequently asked questions (FAQ) page for more details.</p>
SMILES	CCOC(=O)C1=C(NC(=C(C1C2=C(C(=CC=C2)Cl)Cl)C(=O)OC)C)C

Source

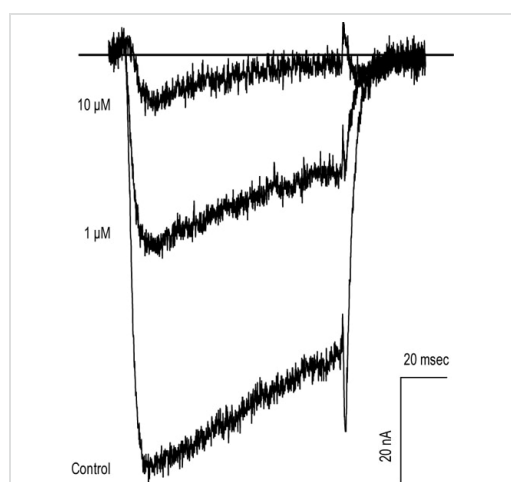
Synthetic

Images



2D chemical structure image of ab141797, Felodipine, L-type Ca²⁺ channel blocker

Chemical Structure - Felodipine, L-type Ca²⁺ channel blocker (ab141797)



Felodipine blocks L-type Ca²⁺ currents in *Xenopus* oocytes. Superimposed current traces of L-type channels (CaV1.2+α2d1+β1a), before and during applications of 1 and 10 μM Felodipine (ab141797) as indicated on the left. Holding potential was -100 mV and currents were elicited every 10 seconds by 100 ms steps to +10 mV.

Functional Studies - Felodipine, L-type Ca²⁺ channel blocker (ab141797)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES, NOT FOR USE IN HUMANS"

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