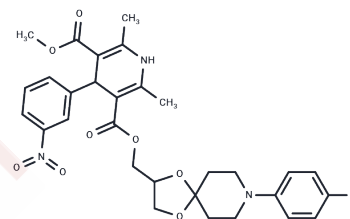


Cronidipine

Chemical Properties

CAS No. : 113759-50-5
 Formula: C₃₀H₃₂ClN₃O₈
 Molecular Weight: 598.04
 Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
 Actual storage temperature shall be subject to the COA.



Biological Description

Description	Cronidipine (LF 20254), a calcium channel antagonist, is used potentially for the treatment of hypertension and myocardia ischemia.
Targets(IC50)	Calcium Channel
In vivo	In acute experiments, Cronidipine was shown to be more potent than nifedipine and nicardipine in reducing blood pressure after i.v. and oral administration with less tachycardia. The hypotensive effects of Cronidipine (10 mg/kg) lasted for greater than 24 h, whereas the blood pressure-lowering effects of nifedipine and nicardipine (10 mg/kg) disappeared after 6 h. Cronidipine given orally once a day at 10 mg/kg for 14 days to spontaneously hypertensive rats, led to a marked and persistent decrease in blood pressure, with no significant changes in heart rate. In an attempt to prevent the development of hypertension, Cronidipine (3 and 10 mg/kg) was given once a day for 8 weeks to 5-week-old SHR. On the last day of treatment, Cronidipine had markedly reduced blood pressure over a 24 h period, however, there was no reduction of left ventricular hypertrophy, since body weight and left ventricular weight was not significantly different between control and treated groups.[2]

Solubility Information

Solubility	DMSO: 55 mg/mL (91.97 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.6721 mL	8.3606 mL	16.7213 mL
5 mM	0.3344 mL	1.6721 mL	3.3443 mL
10 mM	0.1672 mL	0.8361 mL	1.6721 mL
50 mM	0.0334 mL	0.1672 mL	0.3344 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Pruneau D, et al. Cardiovascular properties of LF 2.0254, a new potent vasoselective calcium channel blocker with a slow onset of action. *Fundam Clin Pharmacol.* 1990;4(2):223-243.

Pruneau D, et al. Antihypertensive activity of a new calcium channel blocker LF 2.0254, in spontaneously hypertensive rats: a comparison with nifedipine and nicardipine. *Arch Int Pharmacodyn Ther.* 1988;295:109-124.

Baillet G, et al. Radio high-performance liquid chromatographic determination of ¹⁴C-labelled LF 2-0254, A 1,4-dihydropyridine calcium antagonist, in rat and dog plasma using off-line liquid scintillation counting. *J Chromatogr.* 1988;456(1):183-190.

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