

Furnidipine

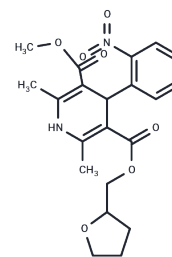
Chemical Properties

CAS No. : 138661-03-7

Formula: C₂₁H₂₄N₂O₇

Molecular Weight: 416.42

Storage: Store at low temperature, Keep away from direct sunlight
 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	Furnidipine significantly reduced AoD and AF and had antiarrhythmic and cardioprotective effects at low doses in a rat model.
Targets(IC50)	Others
In vivo	Pre-treatment period for oral Furnidipine doses (1, 5, or 10 mg/kg) was 1 h, whereas for the intravenous Furnidipine ones (1.25, 2.5, 5, or 10 microg/kg) was 10 min. After both routes of administration, significant protective effects of furnidipine on creatine kinase release were observed after the two lowest doses only. In contrast, its higher dosages were more effective in preventing re-perfusion-induced mortality, arrhythmias and hypotensive episodes, and for transiently lowering arterial blood pressure before initiation of ischemia.[1]

Solubility Information

Solubility	DMSO: < 1 mg/mL (insoluble or slightly soluble) (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.4014 mL	12.0071 mL	24.0142 mL
5 mM	0.4803 mL	2.4014 mL	4.8028 mL
10 mM	0.2401 mL	1.2007 mL	2.4014 mL
50 mM	0.048 mL	0.2401 mL	0.4803 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

Krzemiński TF, et al. Anti-arrhythmic and cardio-protective effects of furnidipine in a rat model: a dose response study. *Eur J Pharmacol.* 2006;549(1-3):91-97.

Maroto R, et al. Effects of omega-conotoxin MVIIIC on veratridine-induced cytotoxicity and cytosolic Ca(2+) oscillations. *Brain Res.* 1996;714(1-2):209-214.

Krzemiński TF, et al. Differential effects of furnidipine and its active metabolites in rat isolated working heart. *Vascul Pharmacol.* 2008;49(2-3):91-96.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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