TOCRIS
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Print Date: Jan 15th 2016

Certificate of Analysis

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Product Name: **Lercanidipine hydrochloride** **Catalog No.: 2959** **Batch No.: 1**

CAS Number: 132866-11-6

IUPAC Name: 1,4-Dihydro-2,6-dimethyl-4-(3-nitrophenyl)-3,5-pyridinedicarboxylic acid 2-[(3,3-diphenylpropyl)methylamino]-1,1-dimethylethyl methyl ester hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{36}H_{41}N_3O_6.HCl.½H_2O$

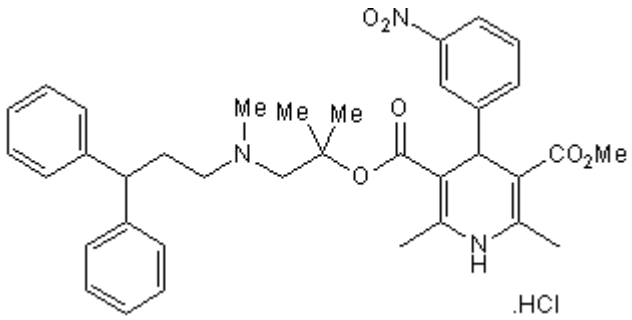
Batch Molecular Weight: 657.2

Physical Appearance: Light yellow solid

Solubility: DMSO to 100 mM
ethanol to 10 mM

Storage: Desiccate at +4°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows >99.8% purity

^{1}H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	65.79	6.59	6.39
Found	65.9	6.45	6.38

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Description:

L-type Ca^{2+} channel blocker that displays higher vascular selectivity than felodipine (Cat. No. 2960). Causes peripheral vasodilation with only weak negative inotropic activity. Antihypertensive.

Physical and Chemical Properties:

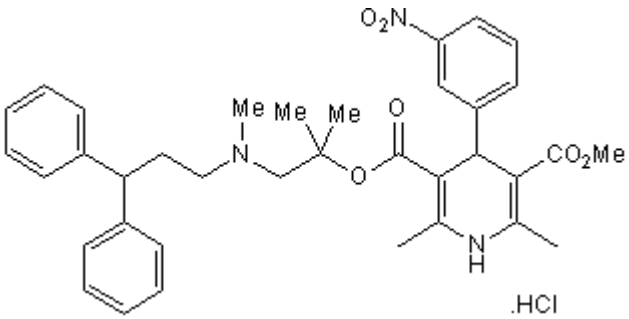
Batch Molecular Formula: $C_{36}H_{41}N_3O_6.HCl.½H_2O$

Batch Molecular Weight: 657.2

Physical Appearance: Light yellow solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Desiccate at +4°C

CAUTION - This product is light sensitive and we recommend that the solid material and any solutions obtained are protected from exposure to light.

Solubility & Usage Info:

DMSO to 100 mM
ethanol to 10 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Sironi *et al* (1996) Antihypertensive effects of lercanidipine in experimental hypertensive rats and dogs. Arzneim.Forsch. ***46*** 152.

Bang *et al* (2003) Lercanidipine. A review of its efficacy in the management of hypertension. Drugs ***63*** 2449. PMID: 14609358.

Wirtz and Herzig (2004) Molecular mechanisms of vasoselectivity of the 1,4-dihydropyridine lercanidipine. Br.J.Pharmacol. ***142*** 275. PMID: 15155536.

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