

**Product Name:** Perhexiline maleate

**Catalog No.:** 5166

**Batch No.:** 2

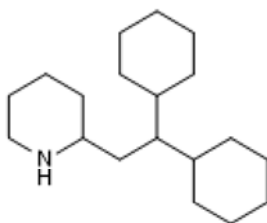
CAS Number: 6724-53-4

EC Number: 229-775-5

IUPAC Name: 2-(2,2-Dicyclohexylethyl)piperidine maleate

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>19</sub>H<sub>35</sub>N.C<sub>4</sub>H<sub>4</sub>O<sub>4</sub>  
**Batch Molecular Weight:** 393.56  
**Physical Appearance:** White solid  
**Solubility:** DMSO to 100 mM  
ethanol to 20 mM  
**Storage:** Store at +4°C  
**Batch Molecular Structure:**



C<sub>4</sub>H<sub>4</sub>O<sub>4</sub>

**2. ANALYTICAL DATA**

**HPLC:** Shows 99.6% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	70.19	9.99	3.56
Found	70.22	10.09	3.83

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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**Description:**

Carnitine palmitoyltransferase 1 and 2 (CPT1/2) inhibitor. Inhibits palmitate oxidation in rat cardiomyocytes and increases cardiac efficiency in isolated rat hearts. Antianginal.

**Physical and Chemical Properties:**

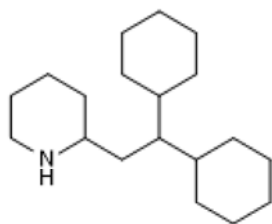
Batch Molecular Formula: C<sub>19</sub>H<sub>35</sub>N.C<sub>4</sub>H<sub>4</sub>O<sub>4</sub>

Batch Molecular Weight: 393.56

Physical Appearance: White solid

**Minimum Purity:** >99%

**Batch Molecular Structure:**



.C<sub>4</sub>H<sub>4</sub>O<sub>4</sub>

**References:**

**Yin *et al*** (2013) Effects of perhexiline-induced fuel switch on the cardiac proteome and metabolome. *J.Mol.Cell.Cardiol.* **55** 27. PMID: 23277191.

**Unger *et al*** (2005) Dissociation between metabolic and efficiency effects of perhexiline in normoxic rat myocardium. *J.Cardiovasc.Pharmacol.* **46** 849. PMID: 16306812.

**Kennedy *et al*** (1996) Inhibition of carnitine palmitoyltransferase-1 in rat heart and liver by perhexiline and amiodarone. *Biochem.Pharmacol.* **52** 273. PMID: 8694852.

**Storage:** Store at +4°C

**Solubility & Usage Info:**

DMSO to 100 mM

ethanol to 20 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.

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