

**Product Name:** ML 204

**Catalog No.:** 4732

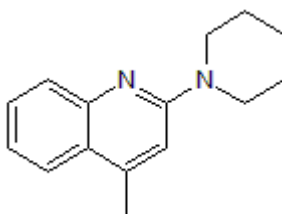
**Batch No.:** 1

**CAS Number:** 5465-86-1

**IUPAC Name:** 4-Methyl-2-(1-piperidinyl)quinoline

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>15</sub>H<sub>18</sub>N<sub>2</sub>  
**Batch Molecular Weight:** 226.32  
**Physical Appearance:** Off-white solid  
**Solubility:** DMSO to 100 mM  
 1eq. HCl to 25 mM with gentle warming  
**Storage:** Store at +4°C  
**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**TLC:** R<sub>f</sub> = 0.42 (Ethyl acetate:Petroleum ether [3:7])  
**HPLC:** Shows 100% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure  
**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	79.61	8.02	12.38
Found	79.37	8.05	12.53

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

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**Description:**

Blocker of TRPC4 channels ( $IC_{50}$  values are 0.96 and 2.6  $\mu$ M in fluorescent and electrophysiological assays, respectively). Exhibits 19-fold selectivity against TRPC6 and 9-fold selectivity against TRPC5; displays no significant activity at TRPV1, TRPV3, TRPA1 and TRPM8 channels at concentrations up to 22  $\mu$ M.

**Physical and Chemical Properties:**

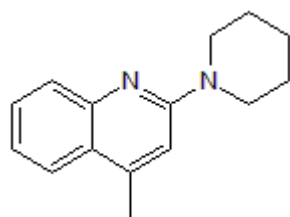
Batch Molecular Formula:  $C_{15}H_{18}N_2$

Batch Molecular Weight: 226.32

Physical Appearance: Off-white solid

**Minimum Purity:** >99%

**Batch Molecular Structure:**



**Storage:** Store at +4°C

**Solubility & Usage Info:**

DMSO to 100 mM

1eq. HCl to 25 mM with gentle warming

**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:**

**Miller et al** (2011) Novel chemical inhibitor of TRPC4 channels. Probe Reports from the Molecular Libraries Program. PMID: 22049577.

**Miller et al** (2011) Identification of ML204, a novel potent antagonist that selectively modulates native TRPC4/5 ion channels. J.Biol.Chem. **286** 33436. PMID: 21795696.

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