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:** \( \text{C}_{15}\text{H}_{18}\text{N}_{2} \)
- **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](image)

2. ANALYTICAL DATA

- **TLC:** \( \text{R}_{t} = 0.42 \) (Ethyl acetate:Petroleum ether [3:7])
- **HPLC:** Shows 100% purity
- **\(^1\)H NMR:** Consistent with structure
- **Mass Spectrum:** Consistent with structure
- **Microanalysis:**
  
<table>
<thead>
<tr>
<th></th>
<th>Carbon</th>
<th>Hydrogen</th>
<th>Nitrogen</th>
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<tbody>
<tr>
<td>Theoretical</td>
<td>79.61</td>
<td>8.02</td>
<td>12.38</td>
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<tr>
<td>Found</td>
<td>79.37</td>
<td>8.05</td>
<td>12.53</td>
</tr>
</tbody>
</table>

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use
**Product Name:** ML 204  
**CAS Number:** 5465-86-1  
**IUPAC Name:** 4-Methyl-2-(1-piperidinyl)quinoline

**Description:**
Blocker of TRPC4 channels (IC\textsubscript{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:**

![Batch Molecular Structure](image)

**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:**