Product Name: ML 204
CAS Number: 5465-86-1
IUPAC Name: 4-Methyl-2-(1-piperidinyl)quinoline

1. PHYSICAL AND CHEMICAL PROPERTIES

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

2. ANALYTICAL DATA

TLC: R_f = 0.42 (Ethyl acetate:Petroleum ether [3:7])
HPLC: Shows 100% purity
^1H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:
<table>
<thead>
<tr>
<th>Element</th>
<th>Theoretical</th>
<th>Found</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon</td>
<td>79.61</td>
<td>79.37</td>
</tr>
<tr>
<td>Hydrogen</td>
<td>8.02</td>
<td>8.05</td>
</tr>
<tr>
<td>Nitrogen</td>
<td>12.38</td>
<td>12.53</td>
</tr>
</tbody>
</table>
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**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\textsubscript{19}H\textsubscript{13}N\textsubscript{2}  
Batch Molecular Weight: 226.32  
Physical Appearance: Off-white solid  
Minimum Purity: >99%  
Batch Molecular Structure:

![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:**  