1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: \( \text{C}_{19}\text{H}_{26}\text{Cl}_{2}\text{N}_{2}\text{O}.\text{HCl} \)

Batch Molecular Weight: 405.79

Physical Appearance: White solid

Solubility: DMSO to 100 mM, ethanol to 100 mM

Storage: Store at +4°C

2. ANALYTICAL DATA

TLC: \( R_f = 0.16 \) (Dichloromethane)

HPLC: Shows 99.5% purity

\(^1\text{H} \text{NMR:} \) Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

<table>
<thead>
<tr>
<th></th>
<th>Theoretical</th>
<th>Found</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon</td>
<td>56.24</td>
<td>56.11</td>
</tr>
<tr>
<td>Hydrogen</td>
<td>6.71</td>
<td>6.66</td>
</tr>
<tr>
<td>Nitrogen</td>
<td>6.9</td>
<td>6.91</td>
</tr>
</tbody>
</table>
Product Name: ML 218 hydrochloride  
Catalog No.: 4507  Batch No.: 1

CAS Number: 1346233-68-8  
IUPAC Name: 3,5-Dichloro-N-[[1α,5α,6-exo,6α]-3-(3,3-dimethylbutyl)-3-azabicyclo[3.1.0]hex-6-yl]methyl]-benzamide hydrochloride

Description:
Selective inhibitor of T-type calcium channels (IC_{50} values are 270 and 310 nM for Ca_{3.3} and Ca_{3.2} respectively in a patch EP assay). Decreases burst activity in STN neurons; reduces cataleptic behaviour in an in vivo rat model of Parkinson's disease. Displays no significant inhibition of L- or N-type calcium channels, K_{r6} (K_{ATP}) or K_{r11.1} (hERG) potassium channels. Orally active.

Physical and Chemical Properties:
Batch Molecular Formula: C_{19}H_{26}Cl_{2}N_{2}O.HCl  
Batch Molecular Weight: 405.79  
Physical Appearance: White solid  
Minimum Purity: >99%

Batch Molecular Structure:

Storage: Store at +4°C

Solubility & Usage Info:
DMSO to 100 mM  
ethanol to 100 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: