Product Name: ML 218 hydrochloride
Catalog No.: 4507
Batch No.: 1
CAS Number: 2319922-08-0
IUPAC Name: 3,5-Dichloro-\(\text{N}[(1\alpha,5\alpha,6\text{-exo,6\alpha})-3\text{-}(3,3\text{-dimethylbutyl})-3\text{-azabicyclo}[3.1.0]hex-6\text{-yl}]\text{methyl}]\text{benzamide hydrochloride}

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: \(\text{C}_{19}\text{H}_{26}\text{Cl}_{2}\text{N}_{2}\text{O}\cdot\text{HCl}\)
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
\(^1\text{H NMR:}\) Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

\[
\begin{array}{ccc}
\text{Theoretical} & 56.24 & 6.71 & 6.9 \\
\text{Found} & 56.11 & 6.66 & 6.91 \\
\end{array}
\]

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

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Product Name: ML 218 hydrochloride
Catalog No.: 4507
Batch No.: 1

CAS Number: 2319922-08-0
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 (IC₅₀ values are 270 and 310 nM for Ca₃.3 and Ca₃.2 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, K₆ (K₆) or K₄11.1 (hERG) potassium channels. Orally active.

Physical and Chemical Properties:
Batch Molecular Formula: C₁₉H₂₆Cl₂N₂O.HCl
Batch Molecular Weight: 405.79
Physical Appearance: White solid
Minimum Purity: >99%

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: