



Certificate of Analysis

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Product Name: ML 213 Catalog No.: 4519 Batch No.: 1

CAS Number: 489402-47-3

IUPAC Name: N-(2,4,6-Trimethylphenyl)-bicyclo[2.2.1]heptane-2-carboxamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₇H₂₃NO **Batch Molecular Weight:** 257.37 **Physical Appearance:** White solid

Solubility: DMSO to 50 mM ethanol to 50 mM

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Storage: Store at +4°C

Batch Molecular Structure:

2. ANALYTICAL DATA

HPLC: Shows 100% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis: Carbon Hydrogen Nitrogen

Theoretical 79.34 9.01 5.44 Found 79.29 9.17 5.39



Product Information

Print Date: Jan 22nd 2019

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ML 213

IUPAC Name: *N*-(2,4,6-Trimethylphenyl)-bicyclo[2.2.1]heptane-2-carboxamide

Description:

Product Name:

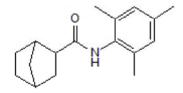
Selective K_V7.2 (KCNQ2) and K_V7.4 (KCNQ4) channel opener (EC50 values are 230 and 510 nM for $K_{V}7.2$ and $K_{V}7.4$ respectively). Displays > 80-fold selectivity against K_V7.1, K_V7.3 and $K_V 7.5$ in a thallium-based fluorescence assay. Hyperpolarizes resting membrane potential in an in vitro spinal cord preparation.

Physical and Chemical Properties:

Batch Molecular Formula: C₁₇H₂₃NO Batch Molecular Weight: 257.37 Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

DMSO to 50 mM ethanol to 50 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).

Catalog No.: 4519

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:

Vicente-Baz et al (2016) Effects of novel subtype selective M-current activators on spinal reflexes in vitro: Comparison with retigabine. Neuropharmacology 109 131. PMID: 27263036.

Yu et al (2011) Discovery, synthesis, and structure activity relationship of a series of N-aryl-bicyclo[2.2.1]heptane-2-carboxamides: Characterization of ML213 as a novel KCNQ2 and KCNQ4 potassium channel opener. ACS Chem.Neurosci. 2 572. PMID: 22125664.

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