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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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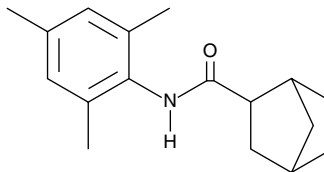
Product Information



ML-213

Item No. 15185

CAS Registry No.: 489402-47-3
Formal Name: N-(2,4,6-trimethylphenyl)-bicyclo[2.2.1]heptane-2-carboxamide
Synonym: CID-3111211
MF: C₁₇H₂₃NO
FW: 257.4
Purity: ≥98%
Stability: ≥2 years at -20°C
Supplied as: A crystalline solid



Laboratory Procedures

For long term storage, we suggest that ML-213 be stored as supplied at -20°C. It should be stable for at least two years.

ML-213 is supplied as a crystalline solid. A stock solution may be made by dissolving the ML-213 in the solvent of choice. ML-213 is soluble in organic solvents such as ethanol and DMSO, which should be purged with an inert gas. The solubility of ML-213 in these solvents is approximately 5 mg/ml.

The KCNQ (K_v7) family of voltage-gated potassium (K⁺) channels consists of five members, KCNQ1-KCNQ5. KCNQ1-KCNQ5 are critical for setting up the excitation threshold of action potentials. KCNQ1 is expressed mainly in cardiac tissue, peripheral epithelial cells, and smooth muscle cells, while KCNQ2-KCNQ5 are predominantly expressed in the peripheral and central nervous system, including hippocampal cells, cortical cells, and dorsal root ganglion. ML-213 is a selective activator of KCNQ2 (K_v7.2) and KCNQ4 (K_v7.4) channels (EC₅₀s = 230 and 510 nM for KCNQ2 and KCNQ4, respectively) that demonstrates > 80-fold selectivity against other related K⁺ channels.¹

Reference

1. Yu, H., Wu, M., Townsend, S.D., *et al.* 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**(10), 572-577 (2011).

Related Products

For a list of related products please visit: www.caymanchem.com/catalog/15185

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WARNING: THIS PRODUCT IS FOR LABORATORY RESEARCH ONLY: NOT FOR ADMINISTRATION TO HUMANS. NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA

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