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DATASHEET

ML 213

Product overview

Name	ML 213
Cat No	HB1064
Biological action	Activator
Purity	>99%
Description	Selective K _v 7.2 / K _v 7.4 channel activator

Images



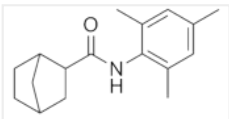
Biological Data

Biological description	Selective K _v 7.2 and K _v 7.4 channel activator (EC ₅₀ values are 230 and 510 nM respectively). Exhibits >80-fold selectivity for K _v 7.2 and K _v 7.4 channels over other K ⁺ channels. Displays vasorelaxant properties.
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Solubility & Handling

Solubility overview	Soluble in DMSO (50mM) or ethanol (50mM)
Storage instructions	+4 °C
Storage of solutions	Prepare and use solutions on the same day if possible. Store solutions at -20 °C for up to one month if storage is required. Equilibrate to RT and ensure the solution is precipitate free before use.
Shipping Conditions	Stable for ambient temperature shipping. Follow storage instructions on receipt.
Important	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

Chemical Data

Chemical name	N-(2,4,6-Trimethylphenyl)-bicyclo[2.2.1]heptane-2-carboxamide
Molecular Weight	257.37
Chemical structure	
Molecular Formula	C ₁₇ H ₂₃ NO

Chemical name	<i>N</i> -(2,4,6-Trimethylphenyl)-bicyclo[2.2.1]heptane-2-carboxamide
CAS Number	489402-47-3
PubChem identifier	3111211
SMILES	<chem>O=C(NC3=C(C)C=C(C)C=C3C)C1CC2CCC1C2</chem>
InChIKey	SIQGKPGBLYKQBB-UHFFFAOYSA-N

References

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.

Yu H *et al* (2011) ACS Chem Neurosci 2(10)

PubMedID [22125664](#)

Vasorelaxant effects of novel Kv 7.4 channel enhancers ML213 and NS15370.

Jepps TA *et al* (2014) Br J Pharmacol 171(19)

PubMedID [24909207](#)

Differential activation of vascular smooth muscle Kv7.4, Kv7.5, and Kv7.4/7.5 channels by ML213 and ICA-069673.

Brueggemann LI *et al* (2014) Mol Pharmacol 86(3)

PubMedID [24944189](#)
