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## DATASHEET

ML 213

### Product overview

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

### Images



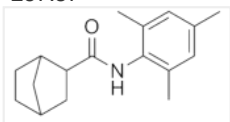
### Biological Data

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

<b>Storage instructions</b>	+4 °C
<b>Solubility overview</b>	Soluble in DMSO (50mM) or ethanol (50mM)
<b>Important</b>	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

### Chemical Data

<b>Chemical name</b>	N-(2,4,6-Trimethylphenyl)-bicyclo[2.2.1]heptane-2-carboxamide
<b>Molecular Weight</b>	257.37
<b>Chemical structure</b>	
<b>Molecular Formula</b>	C <sub>17</sub> H <sub>23</sub> NO
<b>CAS Number</b>	489402-47-3
<b>PubChem identifier</b>	3111211
<b>SMILES</b>	O=C(NC3=C(C)C=C(C)C=C3C)C1CC2CCCC1C2

## 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](#)

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