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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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ML133
HCl

Potassium channel Blocker- Neuroprotective
Catalog No. SIH-617



Discovery through Partnership | Excellence through Quality

Product Name

ML133 HCl

Description

Potassium channel Blocker- Neuroprotective

Purity

>98% (HPLC); NMR (conforms)

CAS No.

1222781-70-5

Molecular Formula

$C_{19}H_{19}NO \cdot HCl$

Molecular Weight

313.8

Field Of Use

Not for use in humans. Not for use in diagnostics or therapeutics. For in vitro research use only.

Properties

Storage Temperature

-20°C

Shipping Temperature

Shipped Ambient

Product Type

Blocker

Solubility

May be dissolved in DMSO (32 mg/ml); or water (10 mg/ml, warm)

Source

Synthetic

Appearance

White powder

SMILES

COC1=CC=C(C=C1)CNCC2=CC=CC3=CC=CC=C32.Cl

InChI

1S/C19H19NO.ClH/c1-21-18-11-9-15(10-12-18)13-20-14-17-7-4-6-16-5-2-3-8-19(16)17;/h2-12,20H,13-14H2,1H3;1H

InChIKey

NGQIBUUFXDPHKT-UHFFFAOYSA-N

Safety Phrases

Classification: Danger. Hazard Statements: H302 - H315 - H318 - H335 - H400

Precautionary Statements: P273 - P280 - P301 + P312 + P330 - P302 + P352 - P305 + P351 + P338 + P310

Cite This Product

ML133 HCl (StressMarq Biosciences Inc., Victoria BC CANADA, Catalog # SIH-617)

Biological Description

Alternative Names

N-[(4-Methoxyphenyl)methyl]-1-naphthalenemethanamine, hydrochloride

Research Areas

Ion Channels, Neuroscience, Neurotransmission, Neurotransmitter Receptors, Potassium Channels

PubChem ID

44247466

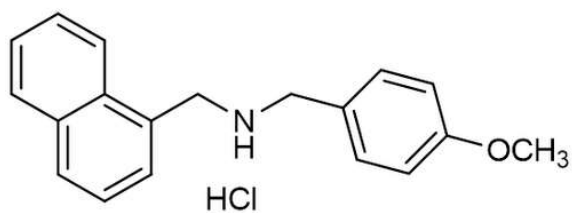
Scientific Background

A potent and selective blocker of the inwardly rectifying Kir2 potassium channel, IC50s = 1.8, 2.8, 2.9, and 4.0 μ M for Kir2.1, Kir2.6, Kir2.2, and Kir2.3, respectively (1). Intrathecal injection of ML133 attenuated the proliferation of microglia and neuropathic pain behaviors after nerve injury (2). ML133 inhibits microglial priming pointing to Kir2.1 channels as a new therapeutic target for neuronal damage (3). Moreover, treatment with ML133 one hour post-injury was sufficient to improve neuronal survival in a traumatic brain injury human organoid model (4).

References

1. Wang H.R. et al. 2011. ACS Chem. Biol. 6:845.
2. Gattlen C. et al. (2020) Glia 68:2119.
3. Spencer N.G. et al. (2016) PLoS One. 11(9):e0162497.
4. Lai J.D. et al. 2024. Cell Stem Cell 31:519.

Product Images



Product Citations

Reviews

There are no reviews yet.