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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Linopirdine dihydrochloride

KCNQ Channel Blocker
Catalog No. SIH-629



Discovery through Partnership | Excellence through Quality

Product Name

Linopirdine dihydrochloride

Description

KCNQ Channel Blocker

Purity

>98% (HPLC); NMR (conforms)

CAS No.

113168-57-3

Molecular Formula

$C_{26}H_{23}Cl_2N_3O$

Molecular Weight

464.4

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 (25 mg/ml): or water (25 mg/ml)

Source

Synthetic

Appearance

Off-white powder

SMILES

C1=CC=C(C=C1)N2C3=CC=CC=C3C(C2=O)(CC4=CC=NC=C4)CC5=CC=NC=C5.Cl.Cl

InChI

InChI=1S/C26H21N3O.2ClH/c30-25-26(18-20-10-14-27-15-11-20,19-21-12-16-28-17-13-21)23-8-4-5-9-24(23)29(25)22-6-2-1-3-7-22;;/h1-17H,18-19H2;2*1H

InChIKey

ZEVHCGTTNRYOY-UHFFFAOYSA-N

Safety Phrases

Classification: Warning

Cite This Product

Linopirdine dihydrochloride (StressMarq Biosciences Inc., Victoria BC CANADA, Catalog # SIH-629)

Biological Description

Alternative Names

1-Phenyl-3,3-bis(pyridine-4-ylmethyl)indolin-2-one, dihydrochloride; DuP996

Research Areas

Ion Channels, Neuroscience, Neurotransmission, Potassium Channels, Voltage-Gated Potassium Channels

PubChem ID

14209557

Scientific Background

Linopirdine increases acetylcholine release and improves performance in animal models of learning and memory via blockade of Kv7 (KCNQ) voltage-gated potassium channels (1-3). Linopirdine is a state-dependent blocker favoring activated single subunits of the channel (4).

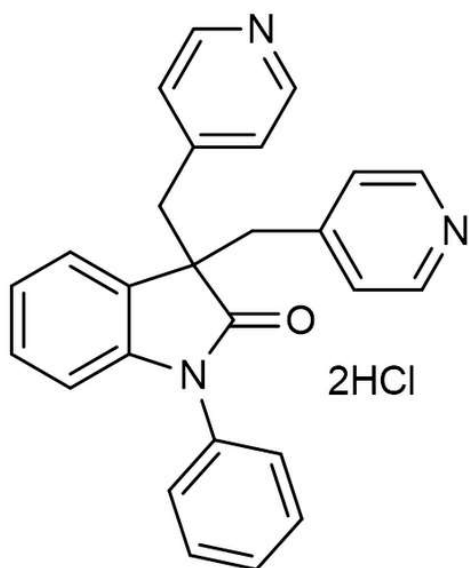
References

1. D Kristufek et al. J. Neurochem. 1999 72:2083
2. HS Wang et al. Science 1998 282:1890

3. DJ Fontana et al. Pharmacol. Biochem. Behav. 1994 49:1075

4. DL Greene et al. J. Pharmacol. Exp. Ther. 2017 362:177

Product Images



Chemical structure of Linopirdine dihydrochloride (SIH-629), a KCNQ Channel Blocker. CAS #: 113168-57-3. Molecular Formula: C₂₆H₂₃Cl₂N₃O. Molecular Weight: 464.4 g/mol.

Product Citations

Reviews

There are no reviews yet.