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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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E-4031

Herg channel blocker
Catalog No. SIH-317



Discovery through partnership | Excellence through quality

Overview

Product Name

E-4031

Description

Herg channel blocker

Purity

>98%

CAS No.

113559-13-0

Molecular Formula

C11H11NO1S1HCl

Molecular Weight

474.44

Properties

Storage Temperature

-20°C

Shipping Temperature

Shipped Ambient

Product Type

Inhibitor

Solubility

Soluble to 100 mM in water and to 50 mM in DMSO

Source

Synthetic

Appearance

White solid

SMILES

CC1=NC(=CC=C1)CCN2CCC(CC2)C(=O)C3=CC=C(C=C3)NS(=O)(=O)C.Cl.Cl

InChi

InChi=1S/C21H27N3O3S.2ClH.2H2O/c1-16-4-3-5-19(22-16)12-15-24-13-10-18(11-14-24)21(25)17-6-8-20(9-7-17)23-28(2,26)27;;;;/h3-

InChIKey

AJNFQUKPBCGJKX-UHFFFAOYSA-N

Safety Phrases

Classification: Caution: Substance not yet fully tested.

Safety Phrases:

S22 - Do not breathe dust

S24/25 - Avoid contact with skin and eyes

S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection

Hazard Phrases:

H302-H315-H317-H318-H335

Precautionary Phrases:

P261-P280-P305 + P351 + P338

Cite This Product

E-4031 (StressMarq Biosciences Inc., Victoria BC CANADA, Catalog # SIH-317)

Biological Description

Alternative Names

N-[4-[[1-[2-(6-Methyl-2-pyridinyl)ethyl]-4-piperidinyl]carbonyl]phenyl]methanesulfonamide dihydrochloride

Research Areas

Ion Channels, Neuroscience

PubChem ID

5312116

Scientific Background

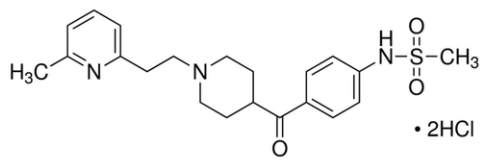
E-4031 acts on a specific class of voltage gated potassium channels, the hERG channels. It does this by binding to the open channels, although its structural target is unclear (1-4). It is also an anti-arrhythmic drug (5).

References

1. Gerlach A.C., Stoehr S.J., Castle N.A. (2010) Mol Pharmacol. 77(1): 56-68.
 2. Perrin M.J., et al. (2008) Prog Biophys Mol Biol. 98: 137-148.
 3. Sanguinetti M.C., Jurkiewicz N.K. (1990) J Gen Physiol. 96: 195-215.
 4. Spector P.S., Curran M.E., Keating M.T., and Sanguinetti M.C. (1996) Circ Res. 78: 499-503.
 5. Miyake K., et al. (1990) J Med Chem. 33: 903.
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Product Images

Chemical structure of E-4031 (SIH-317), a Herg channel blocker. CAS #: 113559-13-0.
Molecular Formula: C₂₁H₂₇N₃O₃S * 2HCl . Molecular Weight: 474.44 g/mol.



Product Citations (0)

Currently there are no citations for this product.

Reviews

There are no reviews yet.