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DATASHEET

E-4031 dihydrochloride

Product overview

Name	E-4031 dihydrochloride
Cat No	HB1080
Biological action	Blocker
Purity	>98%
Description	Potent, selective K _v 11.1 channel blocker

Images



Biological Data

Biological description	Potent and selective K _v 11.1 (hERG) channel blocker (IC ₅₀ = 7.7 nM in HEK 293 cells). Delayed rectifier K ²⁺ current inhibitor. Shows antiarrhythmic actions.
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Solubility & Handling

Storage instructions	Room temperature (desiccate)
Solubility overview	Soluble in water (100mM), and in DMSO (50mM)
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	<i>N</i> -[4-[[1-[2-(6-Methyl-2-pyridinyl)ethyl]-4-piperidinyl]carbonyl]phenyl]methanesulfonamide dihydrochloride
Molecular Weight	474.44
Chemical structure	
Molecular Formula	C ₂₁ H ₂₇ N ₃ O ₃ S·2HCl
CAS Number	113559-13-0
PubChem identifier	3087190
SMILES	<chem>CC1=NC(=CC=C1)CCN2CCC(CC2)C(=O)C3=CC=C(C=C3)NS(=O)(=O)C.Cl.Cl</chem>
Source	Synthetic

Chemical name	<i>N</i> -[4-[[1-[2-(6-Methyl-2-pyridinyl)ethyl]-4-piperidinyl]carbonyl]phenyl]methanesulfonamide dihydrochloride
InChi	InChI=1S/C21H27N3O3S.2ClH/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;/h3-9,18,23H,10-15H2,1-2H3;2*1H
InChiKey	ZQBNWMFBOSOOLX-UHFFFAOYSA-N
MDL number	MFCD01754739
Appearance	White solid

References

Postnatal development of E-4031-sensitive potassium current in rat carotid chemoreceptor cells.

Kim I *et al* (2005) J Appl Physiol (1985) 98(4)

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Effects of the new class III antiarrhythmic drug E-4031 on myocardial contractility and electrophysiological parameters.

Wettwer E *et al* (1991) J Cardiovasc Pharmacol 17(3)

PubMedID [1711611](#)

Properties of HERG channels stably expressed in HEK 293 cells studied at physiological temperature.

Zhou Z *et al* (1998) Biophys J 74(1)

PubMedID [9449325](#)
