

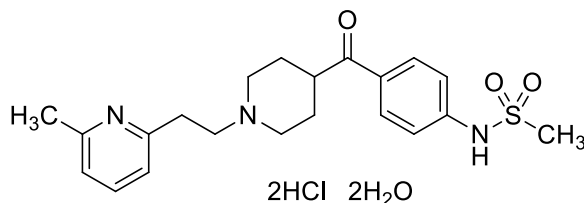
**Catalog # 10-1213**

**E-4031**

CAS# 113558-89-7

N-[4-[[1-[2-(6-Methyl-3-pyridinyl)ethyl]-4-piperidinyl]carbonyl]phenyl]methanesulfonamide dihydrochloride dihydrate

Lot # X102215



Selective hERG potassium channel blocker. Inhibits the rapid delayed-rectifier K<sup>+</sup> current (I<sub>Kr</sub>). Class III antiarrhythmic agent. Cell permeable.

- 1) Ficker *et al.* (2002), *The binding site for channel blockers that rescue misprocessed human long QT syndrome type 2 ether-a-gogo gene (HERG) mutations*; J. Biol. Chem., **277** 4989
- 2) Wettwer *et al.* (1991), *Effects of the new class III antiarrhythmic drug E-4031 on myocardial contractility and electrophysical parameters*; J. Cardiovasc. Pharmacol., **17** 480

**PHYSICAL DATA**

Molecular Weight:	510.47
Molecular Formula:	C <sub>21</sub> H <sub>27</sub> N <sub>3</sub> O <sub>3</sub> S · 2HCl · 2H <sub>2</sub> O
Purity:	98% by TLC [CH <sub>2</sub> Cl <sub>2</sub> /CH <sub>3</sub> OH; 9:1 with 1% NH <sub>4</sub> OH; Silica gel 60; Rf=0.39] NMR: (Conforms)
Solubility:	DMSO (up to 25 mg/ml with warming), or water (up to 100 mg/ml)
Physical Description:	White solid
Storage and Stability:	Store as supplied at room temperature for up to 2 years from the date of purchase. Solutions in DMSO or water may be stored at -20°C for up to 2 months.

Materials provided by Focus Biomolecules are for laboratory research use only and are not intended for human or veterinary applications.