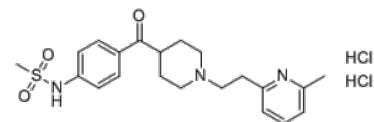


Product Name : E-403
Cat. No. : PC-63156
CAS No. : 113559-13-0
Molecular Formula : C₂₁H₂₉Cl₂N₃O₃S
Molecular Weight : 474.441
Target : Potassium Channel
Solubility : 10 mM in DMSO



Biological Activity

E-4031 is a class III antiarrhythmic agent that binds to Kv11.1 (**hERG**) and blocks the rapid delayed-rectifier K⁺ current (I_{Kr}). E-4031 reversibly prolongs action potential duration in guinea pig papillary muscle and isolated ventricular myocytes, without affecting Na⁺ or Ca²⁺ inward currents.

References

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Sano T, et al. *Br J Pharmacol.* 1990 Mar;99(3):577-81.
Lynch JJ Jr, et al. *J Cardiovasc Pharmacol.* 1990 May;15(5):764-75.
Smith JL, et al. *Am J Physiol Cell Physiol.* 2013 Nov 1;305(9):C919-30.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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