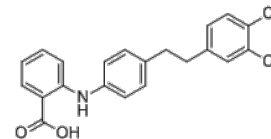


Product Name : PD-118057
Cat. No. : PC-60840
CAS No. : 313674-97-4
Molecular Formula : C₂₁H₁₇Cl₂NO₂
Molecular Weight : 386.272
Target : Potassium Channel
Solubility : 10 mM in DMSO



Biological Activity

PD-118057 is a potent, selective **hERG** potassium channel (**Kv11.1**) activator that increases peak tail hERG current of 111.1% at 10 μ M in HEK293 cells.

PD-118057 does not affect the voltage dependence and kinetics of gating parameters, and open conformation of the channel, also shows no major effect on I(Na), I(Ca,L), I(K1), and I(Ks).

PD-118057 shortens the action potential duration and QT interval in arterially perfused rabbit ventricular wedge preparation, prevents action potential duration and QT prolongation caused by dofetilide at 3 μ M.

References

Zhou J, et al. *Mol Pharmacol*. 2005 Sep;68(3):876-84. Epub 2005 Jun 23.

Patel C, et al. *Heart Rhythm*. 2008 Apr;5(4):585-90.

Perry M, et al. *Proc Natl Acad Sci U S A*. 2009 Nov 24;106(47):20075-80.

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

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