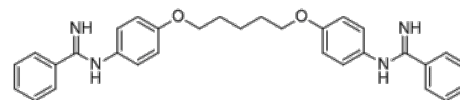


Product Name : IK1 inhibitor PA-6
Cat. No. : PC-35388
CAS No. : 500715-03-7
Molecular Formula : C₃₁H₃₂N₄O₂
Molecular Weight : 492.623
Target : Potassium Channel
Solubility : 10 mM in DMSO



Biological Activity

IK1 inhibitor PA-6 is an efficient, specific inhibitor of inward rectifier current (**IK1**), blocks **KIR2.x** currents of human and mouse with IC₅₀ of 12-15 nM.

PA-6 does not affect INav1.5, ICa-L, IKv4.3, IKv11.1, and IKv7.1/minK currents at 200 nM.

PA-6 inhibits the inward (50 nM 40%; 100 nM 59%; 200 nM 77%) and outward (50 nM 40%; 100 nM 76%; 200 nM 100%) components of IK1 in isolated canine adult-ventricular cardiomyocytes.

PA-6 demonstrates higher efficiency and specificity to KIR2.x-mediated current than the antiprotozoal drug pentamidine.

References

Ji Y, et al. *Br J Pharmacol*. 2017 Aug;174(15):2576-2590.

Ji Y, et al. *J Biomed Sci*. 2017 Jul 15;24(1):44.

Takanari H, et al. *Cardiovasc Res*. 2013 Jul 1;99(1):203-14.

Hoeker GS, et al. *Physiol Rep*. 2017 Jan;5(1). pii: e13120.

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

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