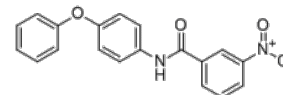


Product Name : ICA-105574
Cat. No. : PC-60832
CAS No. : 316146-57-3
Molecular Formula : C₁₉H₁₄N₂O₄
Molecular Weight : 334.331
Target : Potassium Channel
Solubility : 10 mM in DMSO



Biological Activity

ICA-105574 is a potent and efficacious **hERG channel** activator steeply potentiates current amplitudes more than 10-fold with EC₅₀ of 0.5 μM.

ICA-105574 produces comparatively small hyperpolarizing shifts (up to 11 mV) in the voltage-dependence of channel activation and a 2-fold slowing of channel deactivation.

ICA-105574 enhances IKr current with very high potency by removing the channel inactivation, prevents ventricular arrhythmias in intact guinea-pig hearts caused by IKr and IKs inhibitors.

ICA-105574 has more efficient antiarrhythmic activity than NS1643.

References

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Garg V, et al. *Mol Pharmacol*. 2011 Oct;80(4):630-7.

Meng J, et al. *Eur J Pharmacol*. 2013 Oct 15;718(1-3):87-97.

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

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