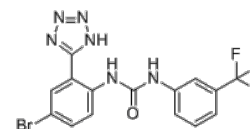


Product Name : NS3623
Cat. No. : PC-60833
CAS No. : 343630-41-1
Molecular Formula : C₁₅H₁₀BrF₃N₆O
Molecular Weight : 427.185
Target : Potassium Channel
Solubility : 10 mM in DMSO



Biological Activity

NS3623 is a novel human RBC **Cl⁻ conductance blocker** (IC₅₀=210 nM) and **HERG channel activator** (EC₅₀=79.4 μM, HERG1 channel activation).

NS-3623 inhibits RBC g(Cl) after oral administration to normal mice (ED₅₀= 25 mg/kg), ameliorates erythrocyte dehydration in transgenic SAD mice.

NS-3623 increases the macroscopic current conducted by the hERG channels by increasing the time constant for channel inactivation.

NS-3623 affects native I(Kr), decreases QT variability and distinctly decreases the occurrence of extrasystoles in the acutely bradypaced hearts.

References

- Bennekou P, et al. *Blood*. 2001 Mar 1;97(5):1451-7.
- Hansen RS, et al. *Mol Pharmacol*. 2006 Oct;70(4):1319-29.
- Hansen RS, et al. *J Pharmacol Exp Ther*. 2007 Jun;321(3):996-1002.
- Hansen RS, et al. *J Cardiovasc Pharmacol*. 2008 Jul;52(1):35-41.

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

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