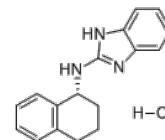


Product Name : NS8593 hydrochloride
Cat. No. : PC-73222
CAS No. : 875755-24-1
Molecular Formula : C₁₇H₁₇N₃.HCl
Molecular Weight : 299.79
Target : Potassium Channel
Solubility : 10 mM in DMSO



Biological Activity

NS8593 is a potent and selective small conductance Ca²⁺-activated K⁺ channels (**SK channels**) inhibitor, reversibly inhibits recombinant SK3-mediated currents with potencies around 100 nM.

NS8593 decreased the Ca(2+) sensitivity by shifting the activation curve for Ca(2+) to the right, only slightly affecting the maximal Ca(2+)-activated SK current.

NS8593 inhibited all the SK1-3 subtypes Ca(2+)-dependently (K_d= 0.42, 0.60, and 0.73 uM, respectively, at 0.5 microM Ca(2+)).

NS8593 does not affect the Ca(2+)-activated K(+) channels of intermediate and large conductance (hIK and hBK channels, respectively).

References

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Haugaard MM, et al. *Heart Rhythm*. 2015 Apr;12(4):825-35.

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Qi XY, et al. *Circulation*. 2014 Jan 28;129(4):430-40.

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

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