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# Data Sheet

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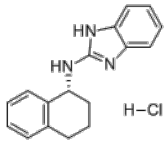
|---|---|---|
| **Product Name** | : | NS8593 hydrochloride |
| **Cat. No.** | : | PC-73222 |
| **CAS No.** | : | 875755-24-1 |
| **Molecular Formula** | : | $C_{17}H_{17}N_3.HCl$ |
| **Molecular Weight** | : | 299.79 |
| **Target** | : | Potassium Channel |
| **Solubility** | : | 10 mM in DMSO |




## 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 (Kd= 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

Strøbaek D, et al. Mol Pharmacol. 2006 Nov;70(5):1771-82.

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

Skibsbye L, et al. Cardiovasc Res. 2014 Jul 1;103(1):156-67.

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



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