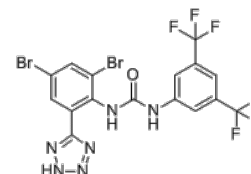


Product Name : NS-5806
Cat. No. : PC-61462
CAS No. : 426834-69-7
Molecular Formula : C₁₆H₈Br₂F₆N₆O
Molecular Weight : 574.07
Target : Potassium Channel
Solubility : 10 mM in DMSO



Biological Activity

NS-5806 (NS5806) is a potent **Kv4.3** channel activator that mediates the transient outward K⁺ current (I_{to}). NS-5806 increases IK_{v4.3} peak current amplitude in CHO-K1 cells expressing KV4.3 and KChIP2 with EC₅₀ of 5.3 μM. NS-5806 also decays Kv4.1 independent of KChIP2, strongly inhibits Kv1.4 at 10 μM, but has no effect on Kv7.1, Kv11.1 and K(ir)2 currents. NS-5806 increases ventricular I_{to} with a leftward shift in I_{to} activation and accelerated restitution at 10 μM.

References

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Gonzalez WG, et al. *J Biol Chem*. 2014 Nov 14;289(46):32201-13.
Lundby A, et al. *Br J Pharmacol*. 2010 Aug;160(8):2028-44.
Cheng H, et al. *Physiol Rep*. 2017 Mar;5(5). pii: e13172.

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

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