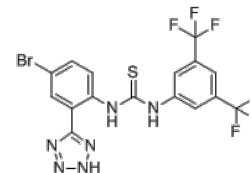


Product Name : NS 11021
Cat. No. : PC-73206
CAS No. : 956014-19-0
Molecular Formula : C₁₆H₉BrF₆N₆S
Molecular Weight : 511.2
Target : Potassium Channel
Solubility : 10 mM in DMSO



Biological Activity

NS11021 is a potent and specific activator of large-conductance Ca²⁺-activated potassium channels (BKCa/KCa1.1). NS11021 activates KCa1.1 in a concentration-dependent manner by parallelshifting the channel activation curves to more negative potentials at >0.3 μM.

NS11021 increased the open probability of the channel by altering gating kinetics without affecting the single-channel conductance.

NS11021 influenced neither a number of cloned Kv channels nor endogenous Na(+) and Ca(2+) channels (L- and T-type) in guinea pig cardiac myocytes.

NS11021 displayed better specificity and a 10 times higher potency compared with the most broadly applied KCa1.1 opener, NS1619.

NS11021 leads to relaxation of both intracavernous arteries and corpus cavernosum strips primarily through opening of BK(Ca) channels.

References

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Kun A, et al. Br J Pharmacol. 2009 Nov;158(6):1465-76.

Layne JJ, et al. Am J Physiol Regul Integr Comp Physiol. 2010 Feb;298(2):R378-84.

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

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