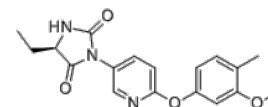


Product Name : AUT1
Cat. No. : PC-60647
CAS No. : 1311136-84-1
Molecular Formula : C₁₈H₁₉N₃O₄
Molecular Weight : 341.367
Target : Potassium Channel
Solubility : 10 mM in DMSO



Biological Activity

AUT1 (AUT-1) is a novel specific, cell permeant modulator of **Kv3 channels** with EC₅₀ of 4.7 and 4.9 μM for **Kv3.1b** and **Kv3.2a**, respectively.

AUT1 displays approximately 10-fold lower potency for Kv3.3 channels, and does not interact with a wide range of ion channels, receptors, and transporters.

AUT1 increases hKv3.1b and hKv3.2a currents by 1049 ± 198% and 226 ± 39%, respectively, at 30 μM.

AUT1 rescues the fast firing capability of FS interneurons following a reduction in Kv3 channel availability, has the potential to rescue normal function and therapeutic benefit in disorders like schizophrenia or age-related cognitive decline.

References

Rosato-Siri MD, et al. *J Pharmacol Exp Ther.* 2015 Sep;354(3):251-60.

Brown MR, et al. *J Neurophysiol.* 2016 Jul 1;116(1):106-21.

Parekh PK, et al. *Neuropsychopharmacology.* 2018 Jan;43(2):435-444.

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

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