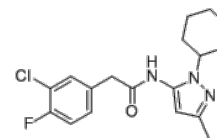


Product Name : VU0810464
Cat. No. : PC-36154
CAS No. : 2126040-21-7
Molecular Formula : C₁₈H₂₁ClFN₃O
Molecular Weight : 349.834
Target : Potassium Channel
Solubility : 10 mM in DMSO



Biological Activity

VU0810464 (VU 0810464, VU464) is a selective neuronal **GIRK** channels activator, displays nanomolar potency for GIRK1/2 (EC₅₀=163 nM) and improved brain penetration.

VU0810464 exhibits comparable efficacy and potency compared with ML297, but VU0810464 is more selective for neuronal GIRK channels (GIRK1/4 EC₅₀>500 nM).

VU0810464 displays >3-fold more potent on GIRK1/2-expressing HEK293 cells compared to GIRK1/4-expressing cells, as measured using a TI⁺ flux assay.

VU0810464 reduced stress-induced hyperthermia in a GIRK-dependent manner in mice, ML297, but not VU0810464, decreased anxiety-related behavior as assessed with the elevated plus maze test.

References

Vo BN, et al. *Br J Pharmacol*. 2019 Mar 29. doi: 10.1111/bph.14671.

Wieting JM, et al. *ACS Chem Neurosci*. 2017 Sep 20;8(9):1873-1879.

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

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