



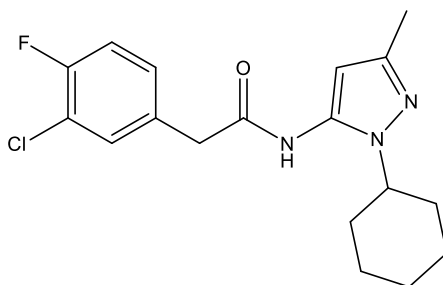
Catalog # 10-4662

VU0810464

CAS# 2126040-21-7

2-(3-Chloro-4-fluorophenyl)-N-(2-cyclohexyl-5-methylpyrazol-3-yl)acetamide

Lot # FBS3087



VU0810464 is potent (Kir3.1/3.2; GIRK1/2 EC_{50} = 165 nM) activator of G protein-gated inwardly-rectifying potassium channels (Kir3; GIRK).^{1,2} Displays selectivity for Kir3.1/3.2 versus Kir3.1/3.4 as well as selectivity for neuronal versus cardiac Kir3 channels. VU0810464 reduced stress-induced hyperthermia but not anxiety-related behavior in mice.

- 1) Wieting *et al.* (2017), *Discovery and Characterization of 1H-Pyrazol-5-yl-2-phenylacetamides as Novel, Non-Urea-Containing GIRK1/2 Potassium Channel Activators*; ACS Chem. Neurosci. **8** 1873
- 2) Vo *et al.* (2019), *VU0810464, a non-urea G-protein-gated inwardly rectifying K⁺ (Kir3/GIRK) channel activator, exhibits enhanced selectivity for neuronal Kir 3 channels and reduces stress-induced hyperthermia in mice*; Br. J. Pharmacol. **176** 2238

PHYSICAL DATA

Molecular Weight:	349.83
Molecular Formula:	C ₁₈ H ₂₁ ClFN ₃ O
Purity:	>98% by TLC
	NMR: (Conforms)
Solubility:	DMSO (>25 mg/ml)
Physical Description:	White solid
Storage and Stability:	Store as supplied at -20°C for up to 2 years from the date of purchase. Solutions in DMSO may be stored at -20°C for up to 3 months.

Materials provided by Focus Biomolecules are for laboratory research use only and are not intended for human or veterinary applications.

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