

VU0529331

## Chemical Properties

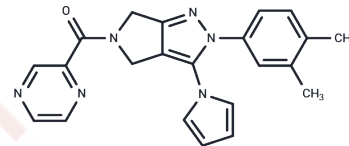
CAS No. : 1286725-49-2

Formula: C<sub>22</sub>H<sub>20</sub>N<sub>6</sub>O

Molecular Weight: 384.43

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



## Biological Description

Description	VU0529331 is a moderately selective non-GIRK1/X G protein-gated inwardly rectifying potassium channel inhibitor. In HEK293 cells, its EC <sub>50</sub> values against GIRK2 and GIRK1/2 are 5.1 μM and 5.2 μM, respectively. It also inhibits the GIRK4 homotetrameric channel.
Targets(IC <sub>50</sub> )	Potassium Channel

## Solubility Information

Solubility	DMSO: 4 mg/mL (10.41 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.6013 mL	13.0063 mL	26.0125 mL
5 mM	0.5203 mL	2.6013 mL	5.2025 mL
10 mM	0.2601 mL	1.3006 mL	2.6013 mL
50 mM	0.052 mL	0.2601 mL	0.5203 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

## Reference

Kozek KA, et al. Discovery and Characterization of VU0529331, a Synthetic Small-Molecule Activator of Homomeric G Protein-Gated, Inwardly Rectifying, Potassium (GIRK) Channels. ACS Chem Neurosci. 2018 Sep 13.

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