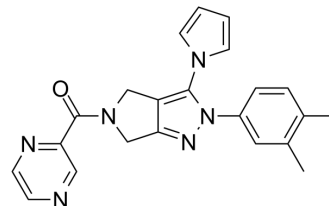


VU0529331

Cat. No.:	HY-112705		
CAS No.:	1286725-49-2		
Molecular Formula:	C ₂₂ H ₂₀ N ₆ O		
Molecular Weight:	384.43		
Target:	Potassium Channel		
Pathway:	Membrane Transporter/Ion Channel		
Storage:	Powder	-20°C	3 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 5 mg/mL (13.01 mM; Need ultrasonic and warming)

Preparing Stock Solutions	Solvent	Mass	1 mg	5 mg	10 mg
	Concentration				
	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

Please refer to the solubility information to select the appropriate solvent.

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 1.25 mg/mL (3.25 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 1.25 mg/mL (3.25 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

VU0529331 is a modestly selective non-GIRK1-containing G protein-gated, inwardly-rectifying, potassium channel (non-GIRK1/X) activator, with EC₅₀s of 5.1 μM and 5.2 μM for GIRK2 and GIRK1/2 in HEK293 cells, respectively, also effective on GIRK4 homomeric channel^[1].

IC₅₀ & Target

EC₅₀: 5.1 μM (GIRK2), 5.2 μM (GIRK1/2)^[1]

REFERENCES

- [1]. Kozek KA, et al. Discovery and Characterization of VU0529331, a Synthetic Small-Molecule Activator of Homomeric G Protein-Gated, Inwardly Rectifying, Potassium

Caution: Product has not been fully validated for medical applications. For research use only.

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