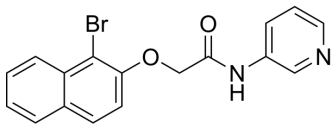
VU0405601

Cat. No.:	HY-116759
CAS No.:	712325-30-9
Molecular Formula:	$C_{17}H_{13}BrN_2O_2$
Molecular Weight:	357.2
Target:	Potassium Channel
Pathway:	Membrane Transporter/Ion Channel
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	VU0405601 is a potent KV11.1 channel activator. VU0405601 protects cardiac tissue from dofetilide (HY-B0232)-induced ventricular tachycardia[1][2].
IC_{50} & Target	KV11.1[1]
In Vitro	VU0405601 (5 μM; pretreated for 30 min before 100 nm dofetilide) protects cardiac tissue from dofetilide (HY-B0232)-induced ventricular tachycardia[2]. VU0405601 (50 μM) can be used as a hERG agonist and increases test pulse and tail currents, increases the IC_{50} of dofetilide from 38.7 to 76.3 nm[2]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Egly CL, et al. A High-Throughput Screening Assay to Identify Drugs that Can Treat Long QT Syndrome Caused by Trafficking-Deficient KV11.1 (hERG) Variants. Mol Pharmacol. 2022 Apr;101(4):236-245.

[2]. Potet F, et al. Identification and characterization of a compound that protects cardiac tissue from human Ether-à-go-go-related gene (hERG)-related drug-induced arrhythmias. J Biol Chem. 2012 Nov 16;287(47):39613-25.

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