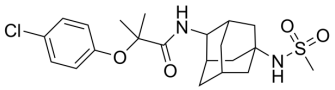
JNJ 303

Cat. No.:	HY-16953
CAS No.:	878489-28-2
Molecular Formula:	$C_{21}H_{29}ClN_2O_4S$
Molecular Weight:	440.98
Target:	Potassium Channel
Pathway:	Membrane Transporter/Ion Channel
Storage:	Powder -20°C 3 years 4°C 2 years In solvent -80°C 2 years -20°C 1 year



SOLVENT & SOLUBILITY

In Vitro

DMSO : 62.5 mg/mL (141.73 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.2677 mL	11.3384 mL	22.6768 mL
	5 mM	0.4535 mL	2.2677 mL	4.5354 mL
	10 mM	0.2268 mL	1.1338 mL	2.2677 mL

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

BIOLOGICAL ACTIVITY

Description

JNJ-303 is a specific delayed rectifier Kv blocker. JNJ 303 can potent block I_{Ks} with an IC_{50} value of 64 nM. JNJ-303 can be used for the research of diabetes, obesity and central nervous system[1][2].

IC_{50} & Target

IC50: 64 nM (I_{Ks})[1]

In Vitro

JNJ 303 can block I_{Ks} with an IC_{50} value of 64 nM[1].
JNJ 303 (3.3 μM) does not have any effects on other cardiac channels[1].
JNJ 303 induces QT-prolongations and causes unprovoked torsades de pointes (TdP)[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

In Vivo

JNJ 303 recapitulates the Exn4-induced decrease in fasting blood glucose level in mice[2].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Sci Adv. 2022 Jun 10;8(23):eabn5345.

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REFERENCES

[1]. Zhaohuan Huang, et al. Glucose-sensing glucagon-like peptide-1 receptor neurons in the dorsomedial hypothalamus regulate glucose metabolism. Sci Adv. 2022 Jun 10;8(23):eabn5345.

[2]. Julie Albrecht, et al. The effect of the KV7/KCNE 1 inhibitor JNJ 303 on heart slices and the L-type calcium channel of cardiac cells.

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