VU6036720 hydrochloride

Cat. No.: HY-148304A

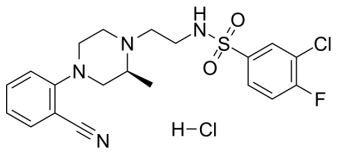
Molecular Formula: $C_{20}H_{23}Cl_2FN_4O_2S$

Molecular Weight: 473.39

Target: Potassium Channel

Pathway: Membrane Transporter/Ion Channel

Storage: 4°C, sealed storage, away from moisture and light
* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 40 mg/mL (84.50 mM; ultrasonic and warming and heat to 60°C)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.1124 mL	10.5621 mL	21.1242 mL
	5 mM	0.4225 mL	2.1124 mL	4.2248 mL
	10 mM	0.2112 mL	1.0562 mL	2.1124 mL

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

BIOLOGICAL ACTIVITY

Description

VU6036720 hydrochloride is a potent and specific in vitro inhibitor of Kir4.1/5.1. VU6036720 hydrochloride can inhibit Kir4.1/5.1 channels with an IC_{50} value of 0.24 μM. VU6036720 hydrochloride can be used for the research of brain and kidney [1].

REFERENCES

[1]. Samantha J McClenahan, et al. VU6036720: The First Potent and Selective In Vitro Inhibitor of Heteromeric Kir4.1/5.1 Inward Rectifier Potassium Channels. Mol Pharmacol. 2022 May;101(5):357-370.

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