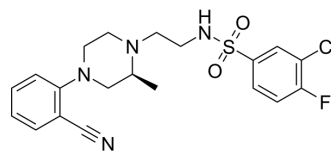


VU6036720

Cat. No.:	HY-148304
Molecular Formula:	C ₂₀ H ₂₂ ClFN ₄ O ₂ S
Molecular Weight:	436.93
Target:	Potassium Channel
Pathway:	Membrane Transporter/Ion Channel
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



SOLVENT & SOLUBILITY

In Vitro	DMSO : 75 mg/mL (171.65 mM; Need ultrasonic)						
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg	
				1 mM	2.2887 mL	11.4435 mL	22.8870 mL
				5 mM	0.4577 mL	2.2887 mL	4.5774 mL
				10 mM	0.2289 mL	1.1443 mL	2.2887 mL
Please refer to the solubility information to select the appropriate solvent.							
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 10 mg/mL (22.89 mM); Clear solution						
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 10 mg/mL (22.89 mM); Clear solution						
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 10 mg/mL (22.89 mM); Clear solution						

BIOLOGICAL ACTIVITY

Description	VU6036720 is a potent and specific in vitro inhibitor of Kir4.1/5.1. VU6036720 can inhibit Kir4.1/5.1 channels with an IC ₅₀ value of 0.24 μM. VU6036720 can be used for the research of brain and kidney ^[1] .
In Vitro	VU6036720 can inhibit Kir4.1/5.1 channels with an IC ₅₀ value of 0.24 μM ^[1] . VU6036720 inhibits Kir4.1/5.1 activity through a reduction of channel open-state probability and single-channel current amplitude ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA