VU6036720

Cat. No.:	HY-148304	
CAS No.:	3026597-12-3	
Molecular Formula:	C ₂₀ H ₂₂ ClFN ₄ O ₂ S	
Molecular Weight:	436.93	
Target:	Potassium Channel	F
Pathway:	Membrane Transporter/Ion Channel	[™] N
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 Mass Concentration	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 sol	ubility information to select the app	propriate 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 o Solubility: ≥ 10 mg	one by one: 10% DMSO >> 90% cor ;/mL (22.89 mM); Clear solution	n oil			

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.			





Product Data Sheet

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.

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