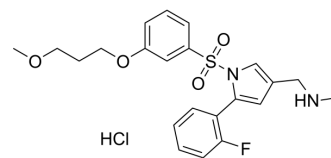


P-CAB agent 2 hydrochloride

Cat. No.:	HY-153219		
CAS No.:	2209911-80-6		
Molecular Formula:	C ₂₂ H ₂₆ ClFN ₂ O ₄ S		
Molecular Weight:	468.97		
Target:	Potassium Channel		
Pathway:	Membrane Transporter/Ion Channel		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (213.23 mM; Need ultrasonic)					
		Solvent	Mass	1 mg	5 mg	10 mg
		Concentration				
	Preparing Stock Solutions	1 mM		2.1323 mL	10.6617 mL	21.3233 mL
		5 mM		0.4265 mL	2.1323 mL	4.2647 mL
		10 mM		0.2132 mL	1.0662 mL	2.1323 mL
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (5.33 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (5.33 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (5.33 mM); Clear solution 					

BIOLOGICAL ACTIVITY

Description	P-CAB agent 2 hydrochloride is a potent and orally active potassium-competitive acid blocker and a gastric acid secretion inhibitor. P-CAB agent 2 hydrochloride inhibits H ⁺ /K ⁺ -ATPase activity with an IC ₅₀ value of <100 nM. P-CAB agent 2 hydrochloride inhibits the hERG potassium channel with an IC ₅₀ value of 18.69 M. P-CAB agent 2 hydrochloride shows no acute toxicity and inhibits histamine (HY-B1204)-induced gastric acid secretion ^[1] .
In Vitro	P-CAB agent 2 hydrochloride (100 μM) inhibits the hERG potassium channel with an inhibition rate of 86.21% and an IC ₅₀ value of 18.69 M ^[1] .

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

In Vivo

P-CAB agent 2 hydrochloride (example 1) inhibits histamine (HY-B1204)-induced gastric acid secretion in SD rats^[1].
P-CAB agent 2 hydrochloride (600, 2000 mg/kg; p.o.; once) shows no acute toxicity and 600mg/kg shows no significant effect on animal body weight in SD rats^[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	180-220 g, SPF grade, male SD rats ^[1]
Dosage:	2 mg/kg
Administration:	P.o.; once
Result:	Inhibited histamine-induced gastric acid secretion with the acid suppression rate of 55.4%.

REFERENCES

[1]. YinLin Qin, et al. Pyrrole sulfonyl derivative, and preparation method and medical use thereof. WO2016119505A1.

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

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