P-CAB agent 2

Cat. No.: HY-153219A

CAS No.: 1978371-23-1

Molecular Formula: $C_{22}H_{25}FN_2O_4S$

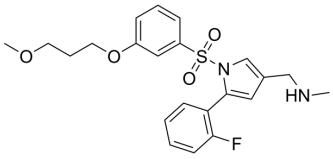
Molecular Weight: 432.51

Target: Potassium Channel

Pathway: Membrane Transporter/Ion Channel

Storage:

Pure form	-20°C	3 years
	4°C	2 years
In solvent	-80°C	6 months
	-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 50 mg/mL (115.60 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.3121 mL	11.5604 mL	23.1209 mL
	5 mM	0.4624 mL	2.3121 mL	4.6242 mL
	10 mM	0.2312 mL	1.1560 mL	2.3121 mL

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

BIOLOGICAL ACTIVITY

Description

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

In Vitro

P-CAB agent 2 (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 (example 1) inhibits histamine (HY-B1204)-induced gastric acid secretion in SD rats[1].

P-CAB agent 2 (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.

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