

## Product Data Sheet

Product Name: P-CAB agent 2

Cat. No.: GC71225

### Chemical Properties

Cas. No. 1978371-23-1

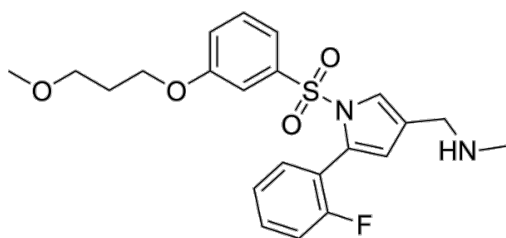
Formula  $C_{22}H_{25}FN_2O_4S$  M.Wt 432.51

Solubility DMSO : 50 mg/mL (115.60 mM); Storage -20°C  
Need ultrasonic; Hygroscopic DMSO has a significant impact on the solubility of product, please use newly opened DMSO)

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure



### Background

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 -induced gastric acid secretion.

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

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P-CAB agent 2 (100  $\mu$ M) inhibits the hERG potassium channel with an inhibition rate of 86.21% and an **IC<sub>50</sub>** value of 18.69 M<sup>[1]</sup>.

P-CAB agent 2 (example 1) inhibits histamine -induced gastric acid secretion in SD rats <sup>[1]</sup>.

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<sup>[1]</sup>.

### References:

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

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