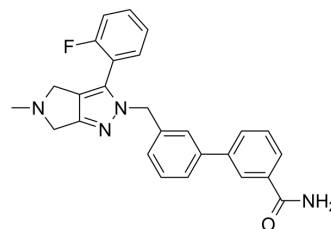


P-CAB agent 1

Cat. No.:	HY-150555
CAS No.:	2374139-68-9
Molecular Formula:	C ₂₆ H ₂₃ FN ₄ O
Molecular Weight:	426.49
Target:	Potassium Channel
Pathway:	Membrane Transporter/Ion Channel
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	P-CAB agent 1 (compound B19) is a highly potent potassium-competitive acid blocker agent with an IC ₅₀ value of 60.50 nM for H ⁺ /K ⁺ -ATPase. P-CAB agent 1 has acceptable oral absorption in rats. P-CAB agent 1 can be used for researching acid-related disorders (ARDs) ^[1] .		
IC₅₀ & Target	IC ₅₀ : 60.50 nM (H ⁺ /K ⁺ -ATPase) ^[1]		
In Vivo	P-CAB agent 1 has acceptable oral absorption in rats ^[1] . Pharmacokinetic Parameters of P-CAB agent 1 in female Sprague-Dawley rats ^[1] .		
		IV (2 mg/kg)	PO (8 mg/kg)
	AUC _{0-∞} (ug/L*hr)	519.57	341.49
	t _{1/2} (ng/mL)	0.49	0.8
	C _{max} (ug/L)	149.93	17
	F (%)		16.43
MCE has not independently confirmed the accuracy of these methods. They are for reference only.			

REFERENCES

[1]. Wang X, et al. Design, synthesis and biological evaluation of novel 5-methyl-2,4,5,6-tetrahydropyrrolo[3,4-c]pyrazole derivatives as potent potassium-competitive acid blockers. *Bioorg Med Chem.* 2022 Jun 15;64:116765.

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

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