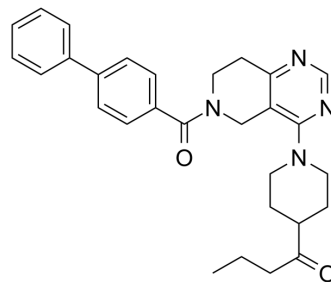


PK-THPP

Cat. No.:	HY-110184
CAS No.:	1332454-07-5
Molecular Formula:	C ₂₉ H ₃₂ N ₄ O ₂
Molecular Weight:	468.59
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

PK-THPP is a potent TWIK-related acid-sensitive K(+) ion channel (TASK-3 ion channel) blocker (IC₅₀s are 35 nM and 300 nM for TASK-3 and TASK-1, respectively)^[1]. PK-THPP increases breathing rate and induces respiratory alkalosis in rats^[2].

REFERENCES

[1]. Coburn CA, et al. Discovery of a pharmacologically active antagonist of the two-pore-domain potassium channel K2P9.1 (TASK-3). *ChemMedChem*. 2012 Jan 2;7(1):123-33.

[2]. Cotten JF. TASK-1 (KCNK3) and TASK-3 (KCNK9) tandem pore potassium channel antagonists stimulate breathing in isoflurane-anesthetized rats. *Anesth Analg*. 2013 Apr;116(4):810-6.

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

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