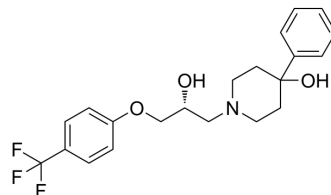


TWIK-1/TREK-1-IN-1

Cat. No.:	HY-149536
CAS No.:	1440532-30-8
Molecular Formula:	C ₂₁ H ₂₄ F ₃ NO ₃
Molecular Weight:	395.42
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	TWIK-1/TREK-1-IN-1 (compound 2a) is an inhibitor of the TWIK-related potassium channel (Potassium Channel) TREK-1. TREK-1 contains a two-pore domain potassium (K2p) channel that dimerizes into TREK-1 homodimer and TWIK-1/TREK-1 heterodimer, and is an important antidepressant target. TWIK-1/TREK-1-IN-3 targets TREK-1 homodimer and TWIK-1/TREK-1 heterodimer with IC ₅₀ s of 9.36 μM and 14.6 μM, respectively, and has antidepressant-like effects ^[1] .
IC ₅₀ & Target	IC ₅₀ : 9.36 μM (TREK-1/TREK-1), 14.6 μM (TWIK-1/TREK-1) ^[1]

REFERENCES

[1]. Lee EH, et al. Novel potent blockers for TWIK-1/TREK-1 heterodimers as potential antidepressants. *Biomed Pharmacother.* 2023 Sep;165:115139..

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

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