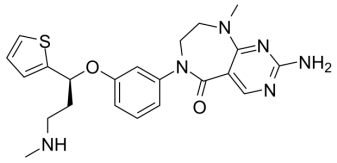
Cavα2δ1&NET-IN-2

Cat. No.:	HY-148863
CAS No.:	2143586-17-6
Molecular Formula:	$C_{22}H_{26}N_6O_2S$
Molecular Weight:	438.55
Target:	Calcium Channel; Monoamine Transporter
Pathway:	Membrane Transporter/Ion Channel; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Cavα2δ1&NET-IN-2 (Compound 45CS) is a dual inhibitor of the α2δ1 subunit of voltage-gated calcium channels (Ca_Vα2δ-1) and the norepinephrine transporter (NET). Cavα2δ1&NET-IN-2 inhibits Ca_Vα2δ-1 with a K_i of 454 nM. Cavα2δ1&NET-IN-2 inhibits NET with a K_i of 59 nM and IC_{50} of 7 nM. Cavα2δ1&NET-IN-2 can be used for research of pain[1].
IC_{50} & Target	Cavα2δ1: 112 nM (Ki); NET: 383 nM (Ki), 67 nM (IC_{50}).

REFERENCES

[1]. Díaz JL, et al. Bicyclic Diazepinones as Dual Ligands of the α2δ-1 Subunit of Voltage-Gated Calcium Channels and the Norepinephrine Transporter. J Med Chem. 2021 Feb 25;64(4):2167-2185.

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