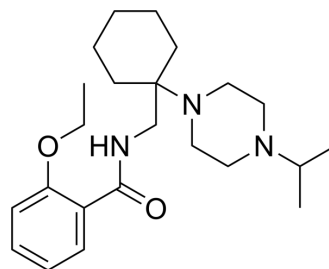


pan-HCN-IN-1

Cat. No.:	HY-163455
CAS No.:	1334308-63-2
Molecular Formula:	C ₂₃ H ₃₇ N ₃ O ₂
Molecular Weight:	387.56
Target:	HCN Channel
Pathway:	Membrane Transporter/Ion Channel
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	pan-HCN-IN-1 (Compound J&J12e) is an inhibitor for hyperpolarization-activated and cyclic-nucleotide-gated 1 (HCN1) ion channel, with IC ₅₀ of 58 nM. pan-HCN-IN-1 reduces the voltage sag response and enhances EPSP summation in ex vivo rats brain slices ^[1] .
IC ₅₀ & Target	IC ₅₀ : 58 nM (HCN1)

REFERENCES

[1]. Harde E, et al., Selective and brain-penetrant HCN1 inhibitors reveal links between synaptic integration, cortical function, and working memory. Cell Chem Biol. 2024 Mar 21;31(3):577-592.e23.

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

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