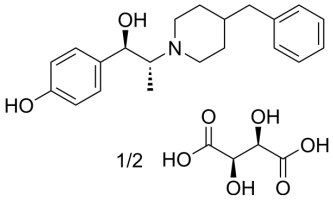
threo-Ifenprodil hemitartrate

Cat. No.:	HY-107708
CAS No.:	1312991-83-5
Molecular Formula:	$C_{21}H_{27}NO_2 \cdot {}_1/_2C_4H_6O_6$
Molecular Weight:	400.5
Target:	iGluR; Sigma Receptor; Potassium Channel
Pathway:	Membrane Transporter/Ion Channel; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	threo Ifenprodil hemitartrate is a σ receptor agonist, with K_is of 59.1 and 2 nM for σ1 and σ2 receptors, respectively. threo Ifenprodil hemitartrate is also a NR2B subunit-selective NMDA receptor antagonist (IC_{50}=0.22 μM). threo Ifenprodil hemitartrate is a hERG potassium channel inhibitor, with an IC_{50} of 88 nM, showing antiarrhythmic activity[1][2][3].
IC_{50} & Target	IC50: 0.22 μM (NMDA)[1].

REFERENCES

[1]. Hashimoto K, et al. Interactions of erythro-ifenprodil, threo-ifenprodil, erythro-iodoifenprodil, and eliprodil with subtypes of sigma receptors. Eur J Pharmacol. 1995 Feb 6;273(3):307-10.

[2]. Avenet P, et al. Antagonist properties of the stereoisomers of ifenprodil at NR1A/NR2A and NR1A/NR2B subtypes of the NMDA receptor expressed in Xenopus oocytes. Eur J Pharmacol. 1996 Jan 25;296(2):209-13.

[3]. Monassier L, et al. sigma(2)-receptor ligand-mediated inhibition of inwardly rectifying K(+) channels in the heart. J Pharmacol Exp Ther. 2007 Jul;322(1):341-50.

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