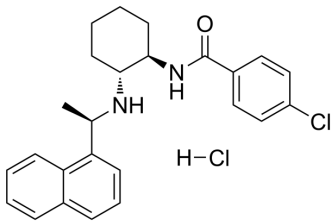
(1R,2R)-Calhex 231 hydrochloride

Cat. No.:	HY-103320B
Molecular Formula:	$C_{25}H_{28}Cl_2N_2O$
Molecular Weight:	443.41
Target:	Others
Pathway:	Others
Storage:	-20°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



BIOLOGICAL ACTIVITY

Description	(1R,2R)-Calhex 231 hydrochloride is the isomer of Calhex 231 hydrochloride (HY-103320A), and can be used as an experimental control. Calhex 231 hydrochloride is a CaSR inhibitor via negative allosteric modulation. Calhex 231 hydrochloride blocks Ca^{2+}-induced accumulation of [^{3}H]inositol phosphate with an IC_{50} of 0.39 μM in HEK293 cells. Calhex 231 hydrochloride has the potential for diabetic cardiomyopathy (DCM) treatment[1][2].

REFERENCES

[1]. Yuan H, et al. Calhex231 Alleviates High Glucose-Induced Myocardial Fibrosis via Inhibiting Itch-Ubiquitin Proteasome Pathway in Vitro. Biol Pharm Bull. 2019 Aug 1;42(8):1337-1344.

[2]. Petrel C1, et al. Modeling and mutagenesis of the binding site of Calhex 231, a novel negative allosteric modulator of the extracellular Ca(2+)-sensing receptor. J Biol Chem. 2003 Dec 5;278(49):49487-94.

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