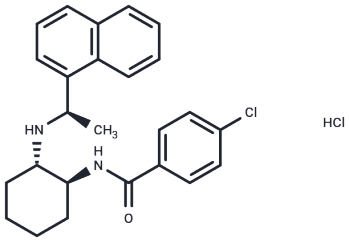
Data Sheet (Cat.No.T10666)

TargetMol
YOUR TARGET MOLECULES

Calhex 231 hydrochloride

Chemical Properties



CAS No. : 2387505-78-2

Formula: C25H28Cl2N2O

Molecular Weight: 443.41

Appearance: no data available

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Biological Description

Description	Calhex 231 hydrochloride is a CaSR inhibitor with the potential for diabetic cardiomyopathy treatment. It blocks Ca2+-induced accumulation of [3H]inositol phosphate (IC50: 0.39 μM in HEK293 cells).
Targets(IC50)	CaSR
In vitro	Calhex 231 could inhibit Itch (atrophin-1 interacting protein 4)-ubiquitin proteasome and TGF-β1/Smads pathways, and then depress the proliferation of cardiac fibroblasts, along with the reduction deposition of collagen, alleviate glucose-induced myocardial fibrosis. Calhex 231 treatment significantly downregulates the CaSR, α-SMA, Col-I/III, MMP2/9 expresses. Calhex231 alleviates high glucose-induced myocardial fibrosis in cardiac fibroblasts [1].
In vivo	In the type 1 diabetic model (T1D) rats, Calhex 231 (4.07 mg/kg; i.p.; daily; for 12 weeks; male Wistar rats) treatment ameliorates diabetic myocardial fibrosis [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.2552 mL	11.2762 mL	22.5525 mL
5 mM	0.451 mL	2.2552 mL	4.5105 mL
10 mM	0.2255 mL	1.1276 mL	2.2552 mL
50 mM	0.0451 mL	0.2255 mL	0.451 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Reference

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.

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