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Inhibitors, Agonists, Screening Libraries

HCN Channel

Hyperpolarization activated cyclic nucleotide gated channels

Hyperpolarization- and Cyclic Nucleotide-gated (HCN) channels are a family of six transmembrane domain, single pore-loop, hyperpolarization activated, non-selective cation channels. The HCN family consists of four members (HCN1-4). HCN channels represent the molecular correlates of $I(h)$, a hyperpolarization-activated current best known for its role in controlling heart rate and in the regulation of neuronal resting membrane potential and excitability.

HCN channels are unique among vertebrate voltage-gated ion channels, in that they have a reverse voltage-dependence that leads to activation upon hyperpolarization. HCN channels are encoded by four genes (HCN1-4) and are widely expressed throughout the heart and the central nervous system.

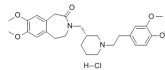
HCN Channel Inhibitors & Antagonists

Cilobradine hydrochloride

(DK-AH 269)

Cat. No.: HY-18940A

Cilobradine is an HCN Channel blocker; an open channel blocker of neuronal I_h and related cardiac I_f channels. Target: HCN Channel blocker
Cilobradine is a HCN channel blocker that is about 3 times more potent than ZD7288.



Purity: ≥98.0%

Clinical Data: Phase 1

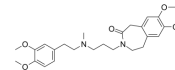
Size: 1 mg

Zatebradine

(UL-FS-49 free base; UL-FS-49CL free base)

Cat. No.: HY-13422A

Zatebradine (UL-FS-49 (free base); UL-FS-49CL (free base)) is a potent inhibitor of **hyperpolarization-activated cyclic nucleotide-gated (HCN) channels** with an IC_{50} value of 1.96 μ M.



Purity: 99.0%

Clinical Data: No Development Reported

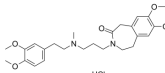
Size: 10 mM × 1 mL, 5 mg, 10 mg, 50 mg

Zatebradine hydrochloride

(UL-FS-49; UL-FS-49CL)

Cat. No.: HY-13422

Zatebradine (UL-FS-49 (free base)) is a potent inhibitor of **hyperpolarization-activated cyclic nucleotide-gated (HCN) channels** with an IC_{50} values 1.96 μ M.



Purity: 99.30%

Clinical Data: No Development Reported

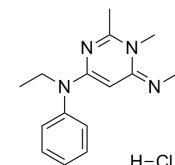
Size: 10 mM × 1 mL, 5 mg, 10 mg, 50 mg

ZD7288

(ICI D7288)

Cat. No.: HY-101346

ZD7288 (ICI D7288) is a selective hyperpolarization-activated cyclic nucleotide-gated (HCN) channel blocker.



Purity: 99.86%

Clinical Data: No Development Reported

Size: 10 mM × 1 mL, 5 mg, 10 mg, 50 mg, 100 mg