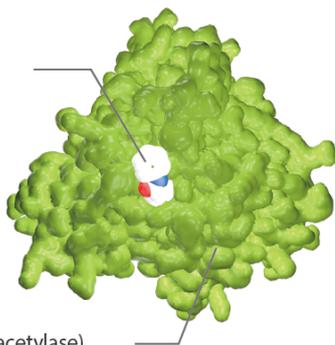


HCN Channel

Hyperpolarization activated cyclic nucleotide gated channels

HDAC Inhibitor:
Vorinostat (SAHA)



HDAC (Histone deacetylase)

and the central nervous system.

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

HCN Channel Inhibitors & Modulators

Cilobradine hydrochloride

(DK-AH 269)

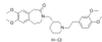
Cat. No.: HY-18940A

Bioactivity: 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. At a concentration of 10 μ M, Cilobradine inhibits WT mHCN2 channel current by $86 \pm \dots$

Purity: >98%

Clinical Data: Phase 1

Size: 2 mg



Zatebradine

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

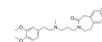
Cat. No.: HY-13422A

Bioactivity: Zatebradine(UL-FS-49 free base; UL-FS-49CL free base) is a potent HCN channels antagonist, which decreased the heartbeat in a reversible manner; 92% inhibition of the hHCN1-mediated current at 10 μ M. IC50 value: 10 μ M(92% 92% inhibition of the hHCN1) [1] Target: hHCN channel antagonist The pharmacological...

Purity: 98.80%

Clinical Data: No Development Reported

Size: 10mM x 1mL in DMSO,
5 mg, 10 mg, 50 mg



Zatebradine hydrochloride

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

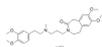
Cat. No.: HY-13422

Bioactivity: Zatebradine hydrochloride (UL-FS-49; UL-FS-49CL) is a potent HCN channels antagonist, which decreased the heartbeat in a reversible manner; 92% inhibition of the hHCN1-mediated current at 10 μ M. IC50 value: 10 μ M(92% 92% inhibition of the hHCN1) [1] Target: hHCN channel antagonist The pharmacological...

Purity: 99.15%

Clinical Data: No Development Reported

Size: 10mM x 1mL in Water,
5 mg, 10 mg, 50 mg



ZD7288

(ICI D7288)

Cat. No.: HY-101346

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

Purity: 99.79%

Clinical Data: No Development Reported

Size: 10mM x 1mL in Water,
5 mg, 10 mg

