**Product Data Sheet**

**Product Name:** Zatebradine  
**CAS No.:** 85175-67-3  
**Cat. No.:** HY-13422A  
**MWt:** 456.57  
**Formula:** C26H36N2O5  
**Purity:** >98%  
**Solubility:** DMSO

**Mechanisms:**
Pathways: Membrane Transporter/Ion Channel; Target: HCN Channel

**Biological Activity:**
Zatebradine (UL-FS49) is a potent HCN channels antagonist, which decreased the heartbeat in a reversible manner; 92% inhibition of the hHCN1-mediated current at 10 uM. IC50 value: 10 uM (92% 92% inhibition of the hHCN1) [1]

Target: hHCN channel antagonist  
The pharmacological properties of hHCN1-mediated currents resembled those of native hyperpolarization-activated currents (I(h)), that is, blockade by Cs(+) (99% at 5 mm), ZD 7288 (98% at 100 microm) and zatebradine (92% at 10 microm) [1]. When voltage-clamp pulse trains were applied, cilobradine induced a use-dependent blockade of If that was stronger and faster than that with zatebradine. Recovery from blockade during prolonged hyperpolarization was significantly faster with zatebradine [2]. The selective HCN blocker zatebradine reduced the activity of oriens-lacunosum moleculare interneurons in wild-type but not HCN2...

**References:**

---

**Caution:** Not fully tested. For research purposes only

Medchemexpress LLC  
www.medchemexpress.com