



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Lieferung & Zahlungsart

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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# PRODUCT INFORMATION

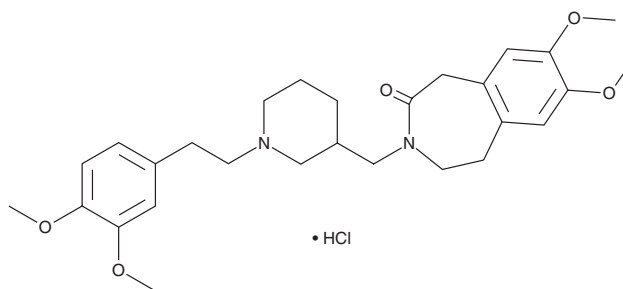


## DK-AH 269

Item No. 21425

**CAS Registry No.:** 186097-54-1  
**Formal Name:** 3-[[[(3S)-1-[2-(3,4-dimethoxyphenyl)ethyl]-3-piperidinyl)methyl]-1,3,4,5-tetrahydro-7,8-dimethoxy-2H-3-benzazepin-2-one, monohydrochloride

**Synonym:** Cilobradine  
**MF:** C<sub>28</sub>H<sub>38</sub>N<sub>2</sub>O<sub>5</sub> • HCl  
**FW:** 519.1  
**Purity:** ≥98%  
**UV/Vis.:** λ<sub>max</sub>: 281 nm  
**Supplied as:** A crystalline solid  
**Storage:** -20°C  
**Stability:** As supplied, 2 years from the QC date provided on the Certificate of Analysis, when stored properly



### Laboratory Procedures

DK-AH 269 is supplied as a crystalline solid. A stock solution may be made by dissolving the DK-AH 269 in the solvent of choice. DK-AH 269 is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF), which should be purged with an inert gas. The solubility of DK-AH 269 in ethanol is approximately 0.5 mg/ml and approximately 3 mg/ml in DMSO and DMF.

Further dilutions of the stock solution into aqueous buffers or isotonic saline should be made prior to performing biological experiments. Ensure that the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. Organic solvent-free aqueous solutions of DK-AH 269 can be prepared by directly dissolving the crystalline solid in aqueous buffers. The solubility of DK-AH 269 in PBS, pH 7.2, is approximately 2 mg/ml. We do not recommend storing the aqueous solution for more than one day.

### Description

DK-AH 269 blocks hyperpolarization-activated cyclic nucleotide-gated (HCN) channels (IC<sub>50</sub> = 0.62 μM in mouse sinoatrial node cells).<sup>1</sup> DK-AH 269 slows heart rate by decreasing the spontaneous firing rate of the sinoatrial node in the heart.<sup>2</sup> Using telemetric ECG recordings in mice, it reduced heart rate in a dose-dependent fashion with an ED<sub>50</sub> of 1.2 mg/kg.<sup>1</sup> DK-AH 269 also has proarrhythmic properties at concentrations higher than 5 mg/kg.<sup>1</sup>

### References

1. Stieber, J., Wieland, K., Stöckl, G., *et al.* Bradycardic and proarrhythmic properties of sinus node inhibitors. *Mol. Pharmacol.* **69**(4), 1328-1337 (2006).
2. Bois, P., Chatelier, A., Bescond, J., *et al.* Pharmacology of hyperpolarization-activated cyclic nucleotide-gated (HCN) channels. *Ion channels and their inhibitors.* 33-51 (2011).

#### WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

#### SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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