SZABO SCANDIC

Part of Europa Biosite

Produktinformation

- Forschungsprodukte & Biochemikalien
- Zellkultur & Verbrauchsmaterial
- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!

Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

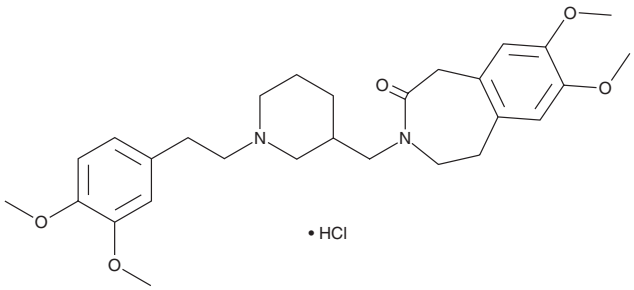
linkedin.com/company/szaboscandic

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: $C_{28}H_{38}N_2O_5$ • HCl
FW: 519.1
Purity: ≥98%
UV/Vis.: λ_{max}: 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_{50} = 0.62 µM in mouse sinoatrial node cells).[1] DK-AH 269 slows heart rate by decreasing the spontaneous firing rate of the sinoatrial node in the heart.[2] Using telemetric ECG recordings in mice, it reduced heart rate in a dose-dependent fashion with an ED_{50} of 1.2 mg/kg.[1] DK-AH 269 also has proarrhythmic properties at concentrations higher than 5 mg/kg.[1]

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).

CAYMAN CHEMICAL
1180 EAST ELLSWORTH RD
ANN ARBOR, MI 48108 · USA
PHONE: [800] 364-9897
[734] 971-3335
FAX: [734] 971-3640
CUSTSERV@CAYMANCHEM.COM
WWW.**CAYMANCHEM**.COM