

Product Data Sheet

Product Name: DK-AH 269

Cat. No.: GC18503

Chemical Properties

Cas. No. 186097-54-1

Chemical 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

SMILES COC1=CC=C(CCN2CC(CN(CCC(C=C(OC)C(OC)=C3)=C3C4)C4=O)CCC2)C=C1OC.C
|

Formula $C_{28}H_{38}N_2O_5 \cdot HCl$

M.Wt 519.1

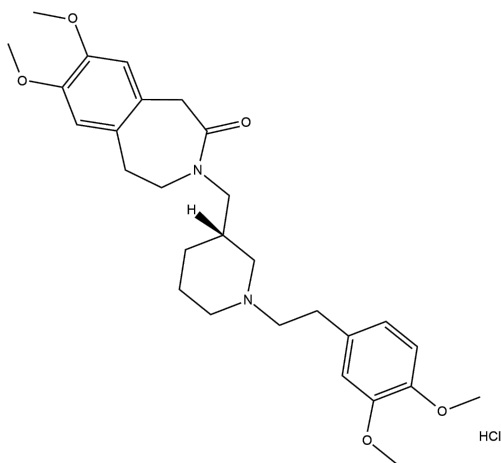
Solubility DMF: 3 mg/ml, DMSO: 3 mg/ml, Ethanol: 0.5 mg/ml, PBS (pH 7.2): 2 mg/ml

Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice. All other available size: ship with RT, or blue ice upon request.

Structure



Background

DK-AH 269 (Cilobradine) is an HCN Channel blocker; an open channel blocker of neuronal Ih and related cardiac If channels.

Caution: Product has not been fully validated for medical applications. For research use only.

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Address: 10292 Central Ave. #205, Montclair, CA, USA

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Target: HCN Channel blocker

DK-AH 269 is a HCN channel blocker that is about 3 times more potent than ZD7288. At a concentration of 10 μ M, DK-AH 269 inhibits WT mHCN2 channel current by $86 \pm 2\%$ ($n = 5$). In contrast, I432A and A425G channel currents were only reduced by $14 \pm 1\%$ ($n = 4$) and $19 \pm 2\%$ ($n = 8$), respectively, by this concentration of DK-AH 269. The double mutant (I432A/A425G) channel was even less sensitive to 10 μ M DK-AH 269 ($8 \pm 2\%$ inhibition; $n = 4$).

References

[1]. Cheng L, et al. Molecular mapping of the binding site for a blocker of hyperpolarization-activated, cyclic nucleotide-modulated pacemaker channels. J Pharmacol Exp Ther. 2007 Sep;322(3):931-939.

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