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Produktinformation

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- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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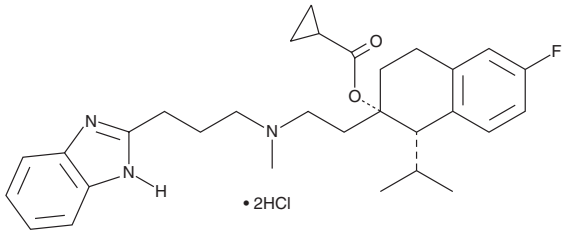
PRODUCT INFORMATION

NNC 55-0396

Item No. 17216

CAS Registry No.: 357400-13-6
Formal Name: cyclopropanecarboxylic acid, (1S,2S)-2-[2-[[3-(1H-benzimidazol-2-yl)propyl]methylamino]ethyl]-6-fluoro-1,2,3,4-tetrahydro-1-(1-methylethyl)-2-naphthalenyl ester, dihydrochloride
MF: $C_{30}H_{38}FN_3O_2 \bullet 2HCl$
FW: 564.6
Purity: ≥98%
Supplied as: A crystalline solid
Storage: -20°C
Stability: ≥2 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

NNC 55-0396 is supplied as a crystalline solid. A stock solution may be made by dissolving the NNC 55-0396 in the solvent of choice. NNC 55-0396 is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide, which should be purged with an inert gas. The solubility of NNC 55-0396 in these solvents is approximately 30 mg/ml.

NNC 55-0396 is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, NNC 55-0396 should first be dissolved in ethanol and then diluted with the aqueous buffer of choice. NNC 55-0396 has a solubility of approximately 0.25 mg/ml in a 1:3 solution of ethanol:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

NNC 55-0396 is a selective inhibitor of T-type calcium channels that blocks $Ca_V3.1$ in stably expressing HEK293 cells (IC_{50} = 6.8 µM) with no discernible effect on high voltage-activated (L-type) channels in INS-1 cells up to a concentration of 100 µM.[1] NNC 55-0396 suppresses tremor in two murine models, the $GABA_A$ α_1-null (20 mg/kg) and harmaline-induced (12.5 mg/kg) tremor models, and was better tolerated than mibefradil (Item No. 15037).[2] In arterial smooth muscle cells, NCC 55-0396 (IC_{50} = 80 nM) inhibits voltage-dependent K^+ channels but does not affect their voltage sensitivity.[3] NNC 55-0396 (1-5 µM) also suppresses angiogenesis *in vitro* by inhibiting hypoxia-inducible factor-1α activity, and it slows tumor growth of flank xenografts of U87MG cells in mice when administered at 20 mg/kg.[4]

References

1. Huang, L., Keyser, B.M., Tagmose, T.M., *et al. J. Pharmacol. Exp. Ther.* **309(1)**, 193-199 (2004).
2. Quesada, A., Bui, P.H., Homanics, G.E., *et al. Eur. J. Pharmacol.* **659(1)**, 30-36 (2011).
3. Son, Y.K., Hong, D.H., Li, H., *et al. J. Pharmacol. Sci.* **125(3)**, 312-319 (2014).
4. Kim, K.H., Kim, D., Park, J.Y., *et al. J. Mol. Med. (Berlin)* **93(5)**, 499-509 (2015).

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