Fendiline (hydrochloride)
Item No. 17295

CAS Registry No.: 13636-18-5
Formal Name: γ-phenyl-N-(1-phenylethyl)-benzenepropanamine, monohydrochloride
MF: C_{23}H_{25}N • HCl
FW: 351.9
Purity: ≥95%
Stability: ≥2 years at -20°C
Supplied as: A crystalline solid

Laboratory Procedures
For long term storage, we suggest that fendiline (hydrochloride) be stored as supplied at -20°C. It should be stable for at least two years.

Fendiline (hydrochloride) is supplied as a crystalline solid. A stock solution may be made by dissolving the fendiline (hydrochloride) in the solvent of choice. Fendiline (hydrochloride) is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide, which should be purged with an inert gas. The solubility of fendiline (hydrochloride) in these solvents is approximately 15, 30, and 20 mg/ml, respectively.

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 fendiline (hydrochloride) can be prepared by directly dissolving the crystalline solid in aqueous buffers. The solubility of fendiline (hydrochloride) in PBS, pH 7.2, is approximately 0.1 mg/ml. We do not recommend storing the aqueous solution for more than one day.

Fendiline is an α1-adrenergic receptor antagonist (Kd = 2.6 µM) and an L-type calcium channel blocker (IC50 = 17 µM) well-known for its coronary vasodilator effects.1-4 Fendiline has recently been reported to inhibit K-Ras plasma membrane localization (IC50 = 9.64 µM), which prevents K-Ras signal transduction and blocks the proliferation of K-Ras-transformed tumor cells.5

References

Related Products
For a list of related products please visit: www.caymanchem.com/catalog/17295

WARNING: This product is for laboratory research only; not for administration to humans. Not for human or veterinary diagnostic or therapeutic use.

SAFETY DATA
This material should be considered hazardous until information to the contrary becomes available. Do not ingest, swallow, or inhale. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. This information contains some, but not all, of the information required for the safe and proper use of this material. Before use, the user must review the complete Safety Data Sheet, which has been sent with your email to your institution.

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Cayman Chemical Company makes no warranty or guarantee of any kind, whether written or oral, expressed or implied, including without limitation, any warranty of fitness for a particular purpose, suitability and merchantability, which extends beyond the description of the chemicals hereof. Cayman warrants only the material that will meet our specifications at the time of delivery.

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