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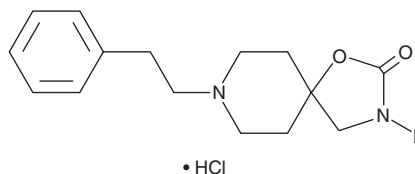
PRODUCT INFORMATION



Fenspiride (hydrochloride)

Item No. 25512

CAS Registry No.: 5053-08-7
Formal Name: 8-(2-phenylethyl)-1-oxa-3,8-diazaspiro[4.5]decan-2-one, monohydrochloride
Synonym: Decaspiride
MF: C₁₅H₂₀N₂O₂ • HCl
FW: 296.8
Purity: ≥95%
UV/Vis.: λ_{max}: 238, 288 nm
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

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

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 fenspiride (hydrochloride) can be prepared by directly dissolving the crystalline solid in aqueous buffers. The solubility of fenspiride (hydrochloride) in PBS, pH 7.2, is approximately 10 mg/ml. We do not recommend storing the aqueous solution for more than one day.

Description

Fenspiride is an antagonist of histamine H₁ receptors and a non-steroidal anti-inflammatory drug (NSAID).^{1,2} It inhibits histamine-induced contraction of isolated guinea pig trachea but not histamine-induced inotropy of isolated guinea pig heart. It also inhibits phosphodiesterase 4 (PDE4), PDE5, and PDE3 (IC₅₀s = 69, ~158, and 363 μM, respectively, in isolated human bronchi derived from patients with lung cancer).³ It is selective for these phosphodiesterases over PDE1 and PDE2, where it provides less than 25% inhibition. Fenspiride potentiates the airway relaxant effects of isoproterenol (Item No. 15592) and sodium nitroprusside indicating an effect on cAMP and cGMP phosphodiesterases, respectively. Aerosolized fenspiride (1 mg/ml) reverses bronchoconstriction induced by capsaicin and, when used at aerosolized concentrations ranging from 1-10 mg/ml, reduces cough induced by citric acid in a guinea pig model of cough.²

References

1. Rognoni, F., Marchini, F., Piacenza, G., et al. *Boll. Chim. Farm.* **117(7)**, 397-401 (1978).
2. Laude, E.A., Bee, D., Crambes, O., et al. *Eur. Respir. J.* **8(10)**, 1699-1704 (1995).
3. Cortijo, J., Naline, E., Ortiz, J.L., et al. *Eur. J. Pharmacol.* **341(1)**, 79-86 (1998).

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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