Fenspiride hydrochloride ab145818

Overview

Product name: Fenspiride hydrochloride
Description: Bronchodilator with anti-inflammatory properties.
Biological description: Bronchodilator with anti-inflammatory properties. Inhibits phosphodiesterase 4 and phosphodiesterase 3 activities with log IC$_{50}$ values of 4.16 and 3.44, respectively, in human isolated bronchi. Inhibits mucus secretion and reduces the release of tachykinins at a prejunctional level by its anti-muscarinic action. It also may be an antagonist at α adrenoceptor and H$_1$ histamine receptors.

Properties

Chemical name: 8-(2-Phenylethyl)-1-oxa-3,8-diazaspiro[4.5]decan-2-one hydrochloride
Molecular weight: 296.79
Chemical structure:

![Chemical structure of fenspiride hydrochloride](image)
Molecular formula: C$_{15}$H$_{20}$N$_2$O$_2$.HCl
CAS Number: 5053-08-7
Storage instructions: Store at -20°C. Store under desiccating conditions. The product can be stored for up to 12 months.
Solubility overview: Soluble in DMSO to 25 mM and in water to 100 mM.
Handling: Wherever possible, you should prepare and use solutions on the same day. However, if you need to make up stock solutions in advance, we recommend that you store the solution as aliquots in tightly sealed vials at -20°C. Generally, these will be useable for up to one month. Before use, and prior to opening the vial we recommend that you allow your product to equilibrate to room temperature for at least 1 hour.

Need more advice on solubility, usage and handling? Please visit our frequently asked questions (FAQ) page for more details.
Source: Synthetic

Please note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE, NOT FOR USE IN HUMANS"
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