

Fenspiride-D5

Chemical Properties

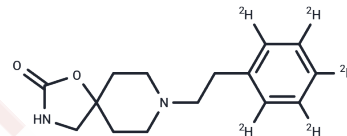
CAS No. : 1246911-67-0

Formula: C₁₅H₁₅D₅N₂O₂

Molecular Weight: 265.36

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	Fenspiride-D5 is intended for use as an internal standard for the quantification of fenspiride by GC- or LC-MS. Fenspiride is an antagonist of histamine H1 receptors and a non-steroidal anti-inflammatory drug (NSAID). 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 (IC ₅₀ s = 69, ~158, and 363 μM, respectively, in isolated human bronchi derived from patients with lung cancer). 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 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 aci.....
Targets(IC50)	Histamine Receptor,PDE

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.7685 mL	18.8423 mL	37.6847 mL
5 mM	0.7537 mL	3.7685 mL	7.5369 mL
10 mM	0.3768 mL	1.8842 mL	3.7685 mL
50 mM	0.0754 mL	0.3768 mL	0.7537 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481