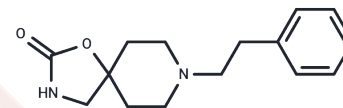


Fenspiride

Chemical Properties

CAS No. : 5053-06-5
 Formula: C₁₅H₂₀N₂O₂
 Molecular Weight: 260.33
 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 is an antagonist of H ₁ -histamine receptors. Fenspiride is an orally active non-steroidal anti-inflammatory agent that can be used for the treatment of respiratory tract infections and otitis media. Fenspiride inhibited phosphodiesterase 4 and phosphodiesterase 3 activities with -logIC ₅₀ values of 4.16+/-0.09 and 3.44+/-0.12, respectively. Phosphodiesterase 5 activity was also inhibited with a -logIC ₅₀ value of approximately 3.8.
Targets(IC50)	Others,Histamine Receptor,PDE
In vitro	Fenspiride (approximately 100 μM) inhibits histamine-induced tracheal constriction in the isolated guinea pig. Fenspiride (< or = 10(-3) M) produced less than 25% inhibition of phosphodiesterase 1 and phosphodiesterase 2 activities [2].
In vivo	Administered orally at 60 mg/kg for 3 days, Fenspiride reduced the lipopolysaccharide-induced early rise of tumor necrosis factor concentrations in serum (4.2 + 0.9 vs. 2.3 + 0.5 ng/ml, P < 0.05) and in the bronchoalveolar lavage fluid (55.7 + 20 vs. 19.7 + 7.5 ng/ml, P < 0.05) of the model of endotoxemia that also reduced the lipopolysaccharide-induced primed stimulation of alveolar macrophages [3]. Administered orally at 60 mg/kg for 3 days, Fenspiride reduced the increased serum concentrations of extracellular type II phospholipase A 2, the intensity of the neutrophilic alveolar invasion, and the lethality due to the lipopolysaccharide [3].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.8413 mL	19.2064 mL	38.4128 mL
5 mM	0.7683 mL	3.8413 mL	7.6826 mL
10 mM	0.3841 mL	1.9206 mL	3.8413 mL
50 mM	0.0768 mL	0.3841 mL	0.7683 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