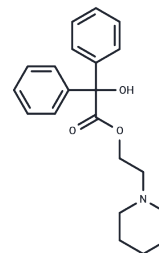


Piperilate

Chemical Properties

CAS No. :	4546-39-8
Formula:	C ₂₁ H ₂₅ NO ₃
Molecular Weight:	339.43
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	Piperilate, also known as Pipethanate, is a hetrazepine derivative PAF antagonist and anticholinergic mixture, commonly utilized in bronchial asthma research. This compound exhibits hypotensive properties and has been found to effectively counteract the toxic effects of organophosphates in mice [1] [2] [3].
In vivo	Piperilate administered at dosages of 11.3 mg/kg and 29.42 mg/kg via intraperitoneal injection (i.p.; single dose) in male albino mice (18-22 g), demonstrated notable anticholinergic properties, effectively antagonizing oxotremorine-induced salivation and tremors with EC ₅₀ values of 11.33 mg/kg and 29.42 mg/kg, respectively. At a higher dose of 30 mg/kg (i.p.; single dose), it exhibited protective efficacy in mice poisoned by organophosphates. Additionally, piperilate at 1 mg/kg through intravenous injection (i.v.) induced hypotension in rabbits without being affected by dichloroisoproterenol or Atropine. Furthermore, a 3 mg/kg (i.v.) dose reduced respiration and heart rate in rabbits, and blocked adrenaline-induced constriction of an isolated rabbit auricle, indicating its potential cardiovascular effects.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.9461 mL	14.7306 mL	29.4612 mL
5 mM	0.5892 mL	2.9461 mL	5.8922 mL
10 mM	0.2946 mL	1.4731 mL	2.9461 mL
50 mM	0.0589 mL	0.2946 mL	0.5892 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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

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