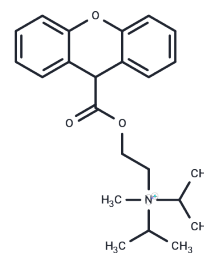


Proprantheline

Chemical Properties

CAS No. :	298-50-0
Formula:	C ₂₃ H ₃₀ NO ₃
Molecular Weight:	368.49
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	Proprantheline is an orally active antagonist of muscarinic acetylcholine receptors (mAChRs), commonly employed to investigate smooth muscle dysfunction, hyperhidrosis, smooth muscle spasms or cramps in the stomach, intestines, or bladder, as well as involuntary urination [1] [2] [3].
Targets(IC50)	Others,AChR
In vitro	Proprantheline at concentrations ranging from 10 μ M to 1 mM reduces the responsiveness of urinary bladder smooth muscle to Acetylcholine [1].
In vivo	Proprantheline, administered orally at doses ranging from 10-300 mg/kg, effectively reduced both fecal pellet count and the incidence of diarrhea in rats suffering from restraint stress-induced bowel dysfunction [3]. The compound demonstrated a dose-dependent efficacy, achieving an ED ₅₀ value of 41 mg/kg for decreasing fecal pellet count and an ED ₅₀ value of 64 mg/kg for reducing diarrhea incidence.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.7138 mL	13.5689 mL	27.1378 mL
5 mM	0.5428 mL	2.7138 mL	5.4276 mL
10 mM	0.2714 mL	1.3569 mL	2.7138 mL
50 mM	0.0543 mL	0.2714 mL	0.5428 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

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