Web: www.taiclone.com
Tel: +886-2-2735-9682
Email: order@taiclone.com

Arecoline (hydrobromide)

Catalog No: tcsc2605

Available Sizes

Size: 500mg

Size: 1g

Specifications

CAS No:
300-08-3

Formula:
$C_8H_{14}BrNO_2$

Pathway:
Neuronal Signaling;GPCR/G Protein

Target:
mAChR;mAChR

Purity / Grade:
>98%

Solubility:
10 mM in DMSO

Alternative Names:
Arecoline bromide

Observed Molecular Weight:
236.11

Product Description

Arecoline Hydrobromide is a muscarinic acetylcholine receptor agonist.

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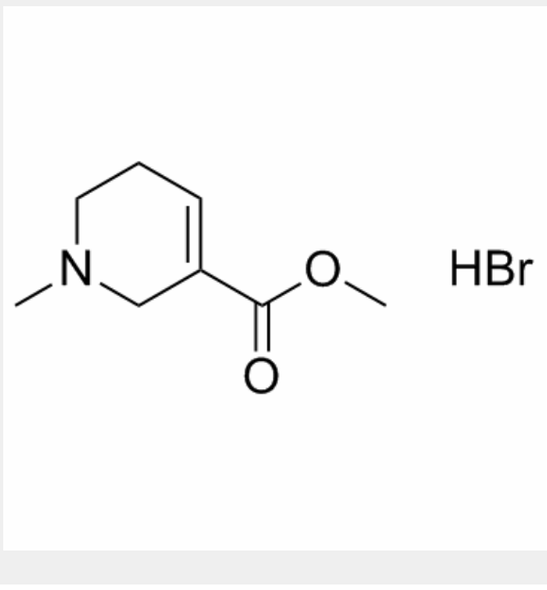
Target: mAChR

Arecoline is an alkaloid found in the areca nut. Arecoline. a drug obtained from the Areca Catechu L., induced a dose-dependent antinociception (0.3-1 mg kg(-1) i.p.) which was prevented by the muscarinic antagonists pirenzepine (0.1 microg per mouse i.c.v.) and S-(-)-ET-126 (0.01 microg per mouse i.c.v.) [1]. Arecoline exerts its excitatory actions by binding to M2-muscarinic receptors on the cell membrane of neurons of the locus coeruleus [2]. Arecoline (1 nM - 1 microM) produced a concentration-dependent contraction in both the longitudinal and the circular smooth muscle of rabbit colon. Atropine (10 microM) abolished the arecoline (80 nM)--induced contraction. M3 receptor antagonist, 4 - DAMP (0.4 microM), abolished the arecoline (80 nM)--related response, whereas M2 receptor antagonist, gallamine (0.4 microM), did not affect the effect of arecoline. These results suggest that arecoline excites the colonic motility via M3 receptor in rabbits [3].



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