Product Name: Arecoline hydrobromide

CAS No.: 300-08-3

Cat. No.: HY-B0489

MWt: 236.11

Formula: C8H14BrNO2

Purity: >98%

Solubility: DMSO 47 mg/mL; Water 47 mg/mL

Mechanisms: Pathways: GPCR/G protein; Target: mAChR
Pathways: Neuronal Signaling; Target: mAChR

Biological Activity:
Arecoline Hydrobromide is a muscarinic acetylcholine receptor agonist.

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 anta...

References:

Caution: Not fully tested. For research purposes only

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