Product Name: Homatropine Bromide

CAS No.: 51-56-9
Cat. No.: HY-B0547A

MWt: 356.25
Formula: C16H22BrNO3

Purity: >98%

Solubility: DMSO 70 mg/mL; Water 70 mg/mL

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

Biological Activity:
Homatropine Bromide is muscarinic AChR antagonist that is an anticholinergic medication.
Target: mAChR
Homatropine is an anticholinergic medication that is an antagonist at muscarinic acetylcholine receptors and thus the parasympathetic nervous system. Homatropine (20 μM) alone produces a dose ratio of 259 in atrium from guinea-pigs. Homatropine (20 μM) produces a dose ratio of only 95.0 when combined with hexamethonium in atrium from guinea-pigs [1]. Homatropine has similar affinities for muscarinic receptors in stomach (pA2 = 7.13) and for those in atria mediating force (pA2 = 7.21) and rate (pA2 = 7.07) responses [2]. Homatropine [14C]methylbromide administrated rectal achieves higher and rapid peak plasma concentrations than by the other routes in rats whether HMB-14C is administered in a water-soluble suppository base or in aqueous solution, retained 28% of the 14...

References:

Caution: Not fully tested. For research purposes only

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