

Homatropine (Bromide)

Catalog No: tcsc2649



Available Sizes

Size: 1g

Size: 5g



Specifications

CAS No:

51-56-9

Formula:

$C_{16}H_{22}BrNO_3$

Pathway:

Neuronal Signaling;GPCR/G Protein

Target:

mAChR;mAChR

Purity / Grade:

>98%

Solubility:

DMSO : 21.5 mg/mL (60.35 mM; Need ultrasonic and warming)

Alternative Names:

Homatropine hydrobromide

Observed Molecular Weight:

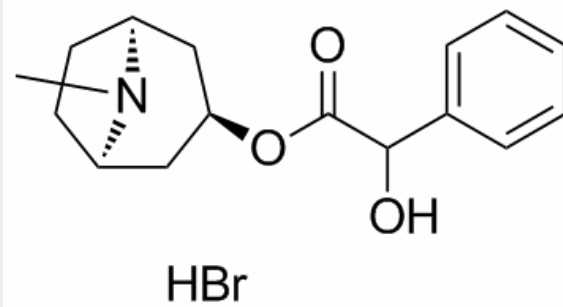
356.25

Product Description

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 μ M) alone produces a dose ratio of 259 in atrium from guinea-pigs. Homatropine (20 μ M) 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 ($pA_2 = 7.13$) and for those in atria mediating force ($pA_2 = 7.21$) and rate ($pA_2 = 7.07$) responses [2]. Homatropine [^{14}C]methylbromide administrated rectal achieves higher and rapid peak plasma concentrations than by the other routes in rats whether HMB- ^{14}C is administered in a water-soluble suppository base or in aqueous solution, retained 28% of the ^{14}C has been excreted in the urine while 56% remained in the large intestine after 12 hours. Unlabelled Homatropine methylbromide, given in rectal suppositories to anaesthetized rats, causes prompt blockade of the effects of vagal stimulation on pulse rate and of intravenous acetylcholine on blood pressure [3].



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