

Product Data Sheet

Product Name: Cyclopentolate (hydrochloride)

Cat. No.: GC43347

Chemical Properties

Cas. No. 5870-29-1

SMILES O=C(OCCN(C)C)C(C1(O)CCCC1)C2=CC=CC=C2.Cl

Formula C17H25NO3.HCl M.Wt 327.9

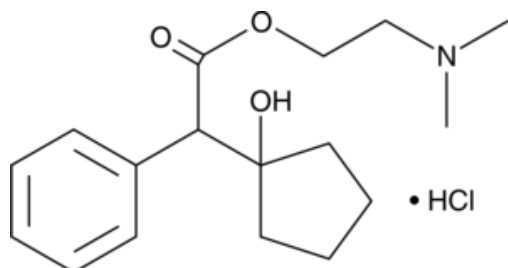
Solubility DMSO : 250 mg/mL (762.54 mM; Need ultrasonic); H₂O : 100 mg/mL (305.02 mM; Need ultrasonic)

Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure



Background

Cyclopentolate is an antagonist of muscarinic acetylcholine receptors ($K_{is} = 1.62, 27.5, \text{ and } 2.63 \text{ nM}$ for M1, M2, and M3 receptors, respectively). It inhibits carbachol-induced contraction of isolated human iris sphincter, circular ciliary muscle, and longitudinal ciliary muscle ($K_{bs} = 7.9, 15.8, \text{ and } 12.5 \text{ nM}$, respectively). Formulations containing cyclopentolate have been used to induce pupil dilation and to prevent the eye from accommodating for near vision.

Caution: Product has not been fully validated for medical applications. For research use only.

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