

Cyclobenzaprine (hydrochloride)

Catalog No: tcsc2981



Available Sizes

Size: 1g

Size: 5g



Specifications

CAS No:

6202-23-9

Formula:

$C_{20}H_{22}ClN$

Pathway:

Neuronal Signaling;GPCR/G Protein

Target:

5-HT Receptor;5-HT Receptor

Purity / Grade:

>98%

Solubility:

DMSO : 50 mg/mL (160.33 mM; Need ultrasonic); H₂O : ≥ 100 mg/mL (320.67 mM)

Alternative Names:

MK130 hydrochloride

Observed Molecular Weight:

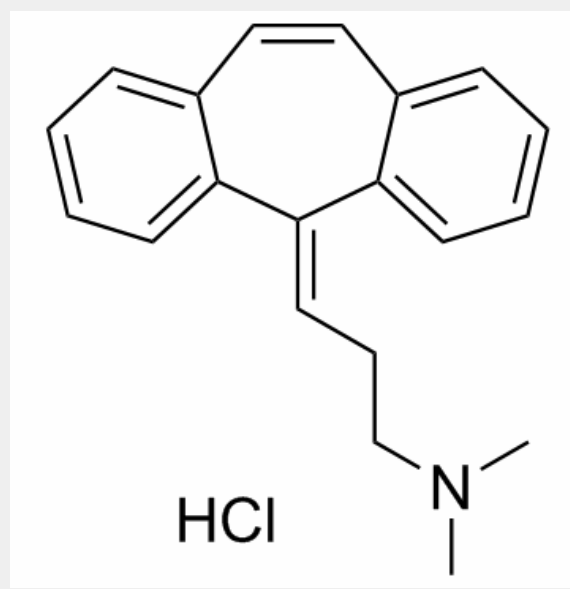
311.85

Product Description

Cyclobenzaprine Hcl is a skeletal muscle relaxant and a central nervous system (CNS) depressant.

Target: 5-HT Receptor 2A

Cyclobenzaprine is a skeletal muscle relaxant and a central nervous system (CNS) depressant. Cyclobenzaprine was thought to be an alpha 2-adrenoceptor agonist that reduced muscle tone by decreasing the activity of descending noradrenergic neurons. Cyclobenzaprine reduced the monosynaptic reflex amplitude dose dependently and this effect was not inhibited by the alpha 2-adrenoceptor antagonists idazoxan and yohimbine. Cyclobenzaprine-induced monosynaptic reflex depression was not attenuated by noradrenergic neuronal lesions produced by 6-hydroxydopamine. Cyclobenzaprine is a 5-HT₂ receptor antagonist and that its muscle relaxant effect is due to inhibition of serotonergic, not noradrenergic, descending systems in the spinal cord [1]. The inhibitory effects of cyclobenzaprine on mono- and polysynaptic reflex potentials are due to the inhibition of descending serotonergic systems through 5-HT₂ receptors in the spinal cord [2].



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