

Chlorprothixene

Catalog No: tcsc2264



Available Sizes

Size: 50mg

Size: 100mg

Size: 200mg

Size: 500mg



Specifications

CAS No:

113-59-7

Formula:

$C_{18}H_{18}ClNS$

Pathway:

GPCR/G Protein;Neuronal Signaling

Target:

Dopamine Receptor;Dopamine Receptor

Purity / Grade:

>98%

Solubility:

10 mM in DMSO

Observed Molecular Weight:

315.86

Product Description

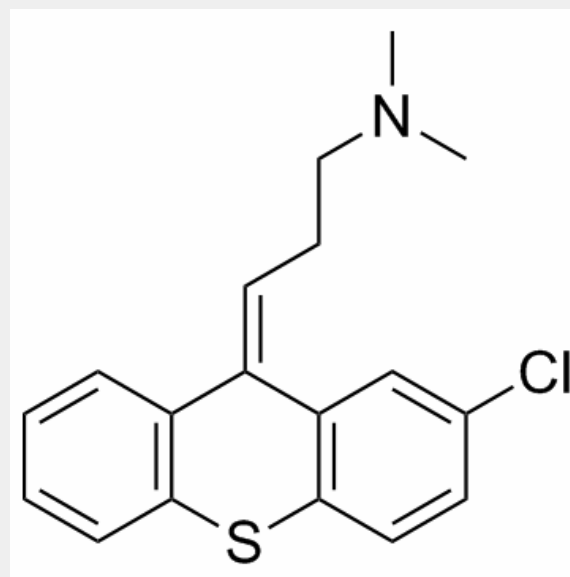
Chlorprothixene has strong binding affinities to dopamine and histamine receptors, such as D1, D2, D3, D5, H1, 5-HT2, 5-HT6 and 5-

HT7, with K_i of 18 nM, 2.96 nM, 4.56 nM, 9 nM, 3.75 nM, 9.4 nM, 3 nM and 5.6 nM, respectively.

Target: Dopamine Receptor

Chlorprothixene exerts strong binding affinities to the dopamine and histamine receptors, such as D1, D2, D3, D5 and H1 with K_i values of 18nM, 2.96 nM, 4.56 nM, 9 nM and 3.75 nM, respectively, but has little affinity to H3 ($K_i >1000$ nM) [1]. Chlorprothixene also shows high affinities for both rat 5-HT6 from stably transfected HEK-293 cells, and rat 5-HT7 receptors from transiently expressed COS-7 cells, with K_i values of 3 nM and 5.6 nM, respectively [2].

Administration of Chlorprothixene restores normal ceramide concentrations in murine bronchial epithelial cells, reduces inflammation in the lungs of mice with cystic fibrosis (CF) and prevents infection with *Pseudomonas aeruginosa*, by inhibiting acidsphingomyelinase (Asm) and not neutral sphingomyelinase (Nsm) [3].



All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!