Web: www.taiclone.com
Tel: +886-2-2735-9682
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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-

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HT7, with Ki 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 Ki values of 18nM, 2.96 nM, 4.56 nM, 9 nM and 3.75 nM, respectively, but has little affinity to H3 (Ki >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 Ki 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].