Catalog # 10-1140
Clozapine
CAS# 5786-21-0
8-Chloro-11-(4-methyl-1-piperazinyl)-5/H-dibenzo[b,e]diazepine
Lot # X101209

Dopamine D₄ and D₂ receptor antagonist. High affinity for the cloned rat dopamine D4 receptor (Kᵢ < 20 nM).¹ Atypical neuroleptic agent.² Antagonist at 5HT₂₅, 5HT₂₇, 5HT₃, 5HT₆ and 5HT₇ receptors.³⁴

1) Seeman and Van Tol (1994), Dopamine receptor pharmacology; Trends Pharmacol. Sci., 15 264
2) Ellenbroek et al. (1991), The involvement of dopamine D1 and D2 receptors in the effects of the classical neuroleptic haloperidol and the atypical neuroleptic clozapine Eur. J. Pharmacol., 196 103
3) Canton et al. (1990), Binding of the typical and atypical antipsychotics to 5-HT1C and 5-HT2 sites: clozapine potently interacts with 5-HT1C sites; Eur. J. Pharmacol., 191 93
4) Kuoppamaki et al. (1993), clozapine and N-desmethylclozapine are potent 5-HT1C receptor antagonists; Eur. J. Pharmacol., 245 179

PHYSICAL DATA

Molecular Weight: 326.82
Molecular Formula: C₁₈H₁₉ClN₄
Purity: 98% by TLC
NMR: (Conforms)
Solubility: DMSO (up to 30 mg/ml)
Physical Description: Yellow solid
Storage and Stability: Store as supplied, at room temperature for up to 2 years from the date of purchase. Solutions in DMSO may be stored at -20°C for up to 3 months.

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