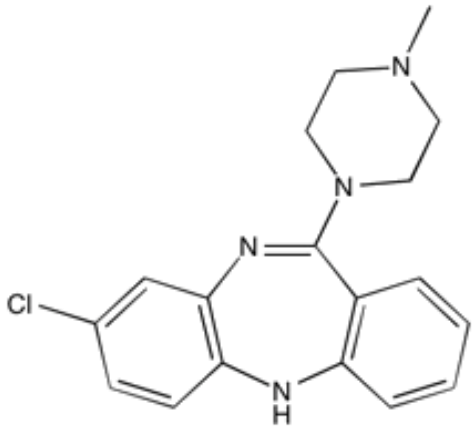
Catalog # 10-1140

Clozapine

CAS# 5786-21-0

8-Chloro-11-(4-methyl-1-piperazinyl)-5/H-dibenzo[b,e]diazepine

Lot # X101209



Dopamine D_4 and D_2 receptor antagonist. High affinity for the cloned rat dopamine D4 receptor (K_i < 20 nM).[1] Atypical neuroleptic agent.[2] Antagonist at $5HT_{2A}$, $5HT_{2C}$, $5HT_3$, $5HT_6$ and $5HT_7$ receptors.[3,4]

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. Pjharmacol., **245** 179

PHYSICAL DATA

Molecular Weight:	326.82
Molecular Formula:	$C_{18}H_{19}ClN_4$
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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