



LKT Laboratories, Inc.

Clozapine

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Product Information

Product ID C4757

CAS No. 5786-21-0

Chemical Name 8-chloro-11-(4-methyl-1-piperazinyl)-5H-Dibenzo(b,e)(1,4)diazepine

Synonym Clozaril, Leponex

Formula C₁₈H₁₉ClN₄

Formula Wt. 326.82

Melting Point 183-184°C

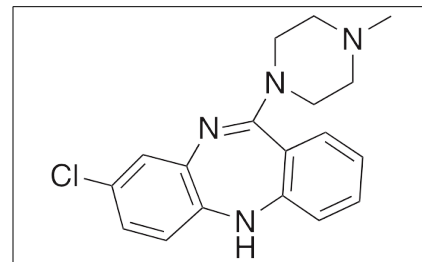
Purity ≥97%

Solubility Soluble in DMSO or dilute aqueous acid.

Store Temp Ambient

Ship Temp Ambient

Description Clozapine is an atypical antipsychotic that also exhibits some immunosuppressive activity. Clozapine is clinically used to treat mood disorders. Clozapine binds Kv1.1 channels, prolonging the QT interval and also causes granulocytosis, limiting its clinical use. Clozapine acts as an antagonist at M1/2/3/5 muscarinic acetylcholine receptors (mAChRs) and D2 receptors, a partial agonist at 5-HT1A receptors, and as a full agonist at M4 mAChRs. Additionally, clozapine binds 5-HT2/3/6/7 receptors, D4 receptors, α1/2 adrenergic receptors, and histamine H1 receptors. Clozapine also potentiates GABAergic neurotransmission.



Bulk quantities available upon request

Product ID	Size
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C4757	25 mg
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C4757	100 mg
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C4757	250 mg
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References Hill AP, Perrin MJ, Heide J, et al. Kinetics of drug interaction with the Kv11.1 potassium channel. *Mol Pharmacol*. 2014 May;85(5):769-76. PMID: 24586056.

Tanahashi S, Yamamura S, Nakagawa M, et al. Clozapine, but not haloperidol, enhances glial D-serine and L-glutamate release in rat frontal cortex and primary cultured astrocytes. *Br J Pharmacol*. 2012 Mar;165(5):1543-55. PMID: 21880034.

Wu Y, Blichowski M, Daskalakis ZJ, et al. Evidence that clozapine directly interacts on the GABAB receptor. *Neuroreport*. 2011 Sep 14;22(13):637-41. PMID: 21753741.

Nord M, Farde L. Antipsychotic occupancy of dopamine receptors in schizophrenia. *CNS Neurosci Ther*. 2011 Apr;17(2):97-103. PMID: 21143431.

Alvir JM, Lieberman JA, Safferman AZ, et al. Clozapine-induced agranulocytosis. Incidence and risk factors in the United States. *N Engl J Med*. 1993 Jul 15;329(3):162-7. PMID: 8515788.

Caution: This product is intended for laboratory and research use only. It is not for human or drug use.