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- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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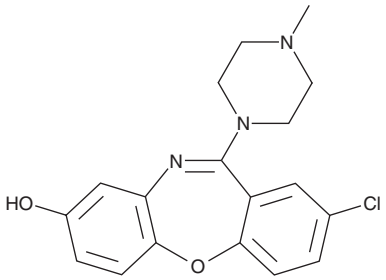
PRODUCT INFORMATION

8-hydroxy Loxapine

Item No. 21786

CAS Registry No.:	61443-77-4
Formal Name:	2-chloro-11-(4-methyl-1-piperazinyl)-dibenz[b,f][1,4]oxazepin-8-ol
Synonym:	8-OH Loxapine
MF:	$C_{18}H_{18}ClN_3O_2$
FW:	343.8
Purity:	≥98%
Supplied as:	A solid
Storage:	-20°C
Stability:	≥ 2 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Description

8-hydroxy Loxapine (8-OH loxapine) is a metabolite formed when loxapine (Item No. 20760), an atypical antipsychotic, is metabolized by the cytochrome P450 isoform CYP1A2.[1,2] Loxapine displays high affinity for histamine, serotonin (5-HT), dopamine, and α_1-adrenergic receptors (K_i values = 7, 7.7, 9.5, 12, and 31 nM for H_1, 5-HT_{2A}, 5-HT_{2C}, D_2, and α_{1A}-adrenergic receptors, respectively).[1,3] It reduces agitation associated with schizophrenia or bipolar disorder.[4] 8-OH Loxapine is considered inactive as it has relatively low affinity to dopamine and 5-HT receptors compared to the parent compound, however, 8-OH loxapine inhibits [^{14}C]5-HT uptake *in vitro* (IC_{50} = 2 µM in human platelets).[5]

References

1. Seeman, P., Corbett, R., and Van Tol, H.H. Atypical neuroleptics have low affinity for dopamine D_2 receptors or are selective for D_4 receptors. *Neuropsychopharmacology* **16(2)**, 93-110 (1997).
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3. Kroeze, W.K., Hufeisen, S.J., Popadak, B.A., *et al.* H_1-histamine receptor affinity predicts short-term weight gain for typical and atypical antipsychotic drugs. *Neuropsychopharmacology* **28(3)**, 519-526 (2003).
4. Zeller, S.L. and Citrome, L. Managing agitation associated with schizophrenia and bipolar disorder in the emergency setting. *West J. Emerg. Med.* **17(2)**, 165-172 (2016).
5. Fulton, A., Norman, T., and Burrows, G.D. Ligand binding and platelet uptake studies of loxapine, amoxapine and their 8-hydroxylated derivatives. *J. Affect. Disord.* **4(2)**, 113-119 (1982).

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