



**SZABO
SCANDIC**

Part of Europa Biosite

Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

linkedin.com/company/szaboscandic



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: C₁₈H₁₈ClN₃O₂

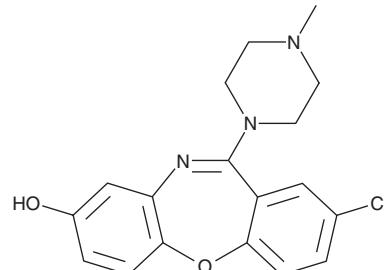
FW: 343.8

Purity: ≥98%

Supplied as: A solid

Storage: -20°C

Stability: ≥4 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 α₁-adrenergic receptors (K_i values = 7, 7.7, 9.5, 12, and 31 nM for H₁, 5-HT_{2A}, 5-HT_{2C}, D₂, 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 [¹⁴C]5-HT uptake *in vitro* (IC₅₀ = 2 μM in human platelets).⁵

References

1. Seeman, P., Corbett, R., and Van Tol, H.H. Atypical neuroleptics have low affinity for dopamine D₂ receptors or are selective for D₄ receptors. *Neuropsychopharmacology* **16**(2), 93-110 (1997).
2. Wong, Y.C., Wo, S.K., and Zuo, Z. Investigation of the disposition of loxapine, amoxapine and their hydroxylated metabolites in different brain regions, CSF and plasma of rat by LC-MS/MS. *J. Pharm. Biomed. Anal.* **58**, 83-83 (2012).
3. Kroese, W.K., Hufeisen, S.J., Popadak, B.A., et al. H₁-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).

WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

WARRANTY AND LIMITATION OF REMEDY

Buyer agrees to purchase the material subject to Cayman's Terms and Conditions. Complete Terms and Conditions including Warranty and Limitation of Liability information can be found on our website.