Product Data Sheet

Product Name: 8-hydroxy Loxapine
Cat. No.: GC18654

Chemical Properties

Cas. No.	61443-77-4		
Chemical Name	2-chloro-11-(4-methyl-1-piperazinyl)-dibenz[b,f][1,4]oxazepin-8-ol		
SMILES	ClC1=CC2=C(C=C1)OC3=C(C=C(O)C=C3)N=C2N4CCN(C)CC4		
Formula	$C_{18}H_{18}ClN_3O_2$	M.Wt	343.8
Solubility	Soluble in DMSO	Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 ℃ and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20℃ for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		
Structure	8-hydroxy Loxapine		

Background

8-hydroxy Loxapine (8-OH loxapine) is a metabolite formed when loxapine , an atypical antipsychotic, is metabolized by the cytochrome P450 isoform CYP1A2. Loxapine displays high affinity for histamine, serotonin (5-HT), dopamine, and α1-adrenergic receptors (Ki values = 7, 7.7, 9.5, 12, and 31 nM for H1, 5-HT2A, 5-HT2C, D2, and α1A-adrenergic receptors, respectively). It reduces agitation associated with schizophrenia or bipolar disorder. 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).

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