

Certificate of Analysis

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Product Name: Zotepine

Catalog No.: 3996

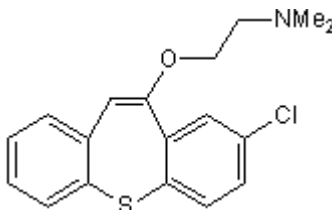
Batch No.: 1

CAS Number: 26615-21-4

IUPAC Name: 2-[(8-Chlorodibenzo(Z)[b,f]thiepin-10-yl)oxy]-N,N-dimethylethanamine

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₈H₁₈ClNOS
Batch Molecular Weight: 331.86
Physical Appearance: White solid
Solubility: DMSO to 50 mM
 ethanol to 50 mM
Storage: Store at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

Melting Point: Between 90 - 92°C
HPLC: Shows 99.7% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	65.15	5.47	4.22
Found	64.95	5.42	4.28

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Description:

5-HT_{2A} receptor and dopamine D₂ receptor antagonist (K_i values are 0.69 and 2.3 nM respectively). Also a potent histamine H₁ receptor antagonist (IC₅₀ = 8.0 nM). Atypical antipsychotic; exhibits antidepressive and anxiolytic effects in vivo.

Physical and Chemical Properties:

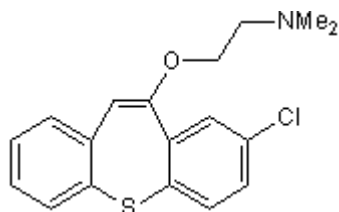
Batch Molecular Formula: C₁₈H₁₈ClNOS

Batch Molecular Weight: 331.86

Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:



References:

Herrick-Davis et al (2000) Inverse agonist activity of atypical antipsychotic drugs at human 5-hydroxytryptamine_{2C} receptors. *J.Pharmacol.Exp.Ther.* **295** 226. PMID: 10991983.

Yamamura et al (2009) Effects of zotepine on extracellular levels of monamine, GABA and glutamate in rat prefrontal cortex. *Br.J.Pharmacol.* **157** 656. PMID: 19371334.

Shobo et al (2010) Norzotepine, a major metabolite of zotepine, exerts atypical antipsychotic-like and antidepressant-like actions through its potent inhibition of norepinephrine reuptake. *J.Pharmacol.Exp.Ther.* **333** 772. PMID: 20223878.

Storage: Store at RT

Solubility & Usage Info:

DMSO to 50 mM

ethanol to 50 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

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bio-techne.com

info@bio-techne.com

techsupport@bio-techne.com

North America

Tel: (800) 343 7475

China

info.cn@bio-techne.com

Tel: +86 (21) 52380373

Europe Middle East Africa

Tel: +44 (0)1235 529449

Rest of World

www.tocris.com/distributors

Tel:+1 612 379 2956