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Print Date: Apr 24th 2019

Certificate of Analysis

www.tocris.com

Batch No.: 2

Catalog No.: 4349

Product Name: Olanzapine

CAS Number: 132539-06-1

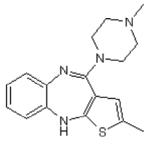
IUPAC Name: 2-Methyl-4-(4-methyl-1-piperazinyl)-10*H*-thieno[2,3-*b*][1,5]benzodiazepine

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: Batch Molecular Weight: Physical Appearance: Solubility: $C_{17}H_{20}N_4S$ 312.43 Yellow solid DMSO to 100 mM 1eq. HCl to 100 mM ethanol to 10 mM Store at +4°C

Storage:

Batch Molecular Structure:



2. ANALYTICAL DATA

Melting Point: HPLC: ¹H NMR: Mass Spectrum: Microanalysis: Between 192 - 196°C Shows 99.9% purity Consistent with structure Consistent with structure

	Carbon H	ydrogen N	litrogen
Theoretical	65.35	6.45	17.92
Found	65.13	6.64	18.25

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

bio-techne.comNorth AmericaChinaEurope Middle East AfricaRest of Worldinfo@bio-techne.comTel: (800) 343 7475info.cn@bio-techne.comTel: +44 (0)1235 529449www.tocris.com/distributorstechsupport@bio-techne.comTel: +86 (21) 52380373Tel: +44 (0)1235 529449tel: +1612 379 2956

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Product Information

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IUPAC Name: 2-Methyl-4-(4-methyl-1-piperazinyl)-10*H*-thieno[2,3-*b*][1,5]benzodiazepine

Description:

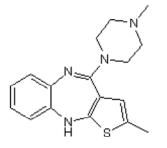
Antagonist of 5-HT_{2A} and dopamine D₂ receptors (K_i values are 4 and 11 nM respectively). Also displays affinity for a range of other receptors including D₁ and D₄, 5-HT_{2C}, α_1 , H₁ and M₁₋₄ receptors (K_i values range between 1.9 and 31 nM). Atypical antipsychotic. Displays anticholinergic properties. Also a highly potent activator of hM₄D_i DREADDs (EC₅₀ values are 5 nM in vitro and 7 nM in vivo).

Physical and Chemical Properties:

Batch Molecular Formula: C₁₇H₂₀N₄S Batch Molecular Weight: 312.43 Physical Appearance: Yellow solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

DMSO to 100 mM 1eq. HCl to 100 mM ethanol to 10 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).

Catalog No.: 4349

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.

References:

Tollefson and Taylor (2000) Olanzapine: preclinical and clinical profiles of a novel antipsychotic agent. CNS Drug Reviews **6** 303. **Bymaster** *et al* (1996) Radioreceptor binding profile of the atypical antipsychotic olanz. Neuropsychopharmacology **14** 87. PMID: 8822531.

Moore *et al* (1992) The behavioral pharmacology of olanzapine, a novel "atypical" antipsychotic agent. J.Pharmacol.Exp.Ther. **262** 545. PMID: 1354253.

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