

**Product Name:** *N*-Desmethylozapine

**Catalog No.:** 1007

**Batch No.:** 2

CAS Number: 6104-71-8

IUPAC Name: 8-Chloro-11-(1-piperazinyl)-5*H*-dibenzo[*b,e*][1,4]diazepine

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>17</sub>H<sub>17</sub>ClN<sub>4</sub>·¼H<sub>2</sub>O

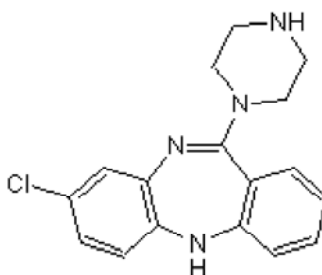
**Batch Molecular Weight:** 317.3

**Physical Appearance:** Yellow solid

**Solubility:** ethanol to 100 mM  
DMSO to 100 mM

**Storage:** Store at RT

**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**TLC:** R<sub>f</sub> = 0.3 (Ethyl acetate:Methanol [1:1])

**Melting Point:** Between 116 - 130°C

**HPLC:** Shows 99.4% purity

**<sup>1</sup>H NMR:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	64.35	5.56	17.66
Found	64.46	5.34	17.44

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

**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

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**Description:**

A major metabolite of clozapine; a potent and selective 5-HT<sub>2C</sub> serotonin receptor antagonist.

**Physical and Chemical Properties:**

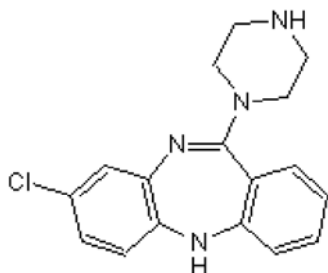
Batch Molecular Formula: C<sub>17</sub>H<sub>17</sub>ClN<sub>4</sub>·½H<sub>2</sub>O

Batch Molecular Weight: 317.3

Physical Appearance: Yellow solid

**Minimum Purity:** ≥99%

**Batch Molecular Structure:**



**Storage:** Store at RT

**Solubility & Usage Info:**

ethanol to 100 mM

DMSO to 100 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.

**References:**

**Fox and Brotchie** (1996) Normethylozapine potentiates the action of quinpirole in the 6-hydroxyDA lesioned rat. *Eur.J.Pharmacol.* **301** 27. PMID: 8773443.

**Wong et al** (1996) Effects of cloz. metabolites and chronic cloz. treatment on rat brain GABA<sub>A</sub> receptors. *Eur.J.Pharmacol.* **314** 319. PMID: 8957253.

**Kuoppamäki et al** (1993) Clozapine and methylozapine are potent 5-HT<sub>1C</sub> receptor antagonists. *Eur.J.Pharmacol.* **245** 179. PMID: 8387927.

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