

## Certificate of Analysis

**Product Name:** Moclobemide

**Catalog No.:** 4395

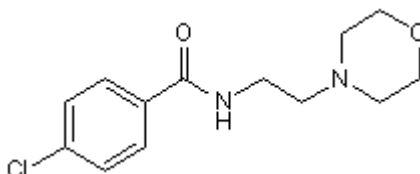
**Batch No.:** 1

CAS Number: 71320-77-9

IUPAC Name: 4-Chloro-N-[2-(4-morpholinyl)ethyl]benzamide

### 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>13</sub>H<sub>17</sub>ClN<sub>2</sub>O<sub>2</sub>  
**Batch Molecular Weight:** 268.74  
**Physical Appearance:** White solid  
**Solubility:** DMSO to 100 mM  
ethanol to 100 mM  
**Storage:** Store at RT  
**Batch Molecular Structure:**



### 2. ANALYTICAL DATA

**Melting Point:** Between 137 - 138°C  
**HPLC:** Shows 99.8% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	58.1	6.38	10.42
Found	58.13	6.34	10.45

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

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**Description:**

Reversible monoamine oxidase A (MOA-A) inhibitor.

**Physical and Chemical Properties:**

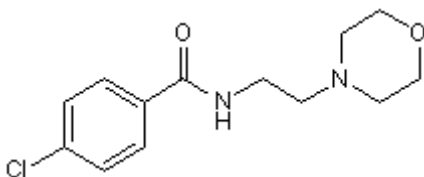
Batch Molecular Formula: C<sub>13</sub>H<sub>17</sub>ClN<sub>2</sub>O<sub>2</sub>

Batch Molecular Weight: 268.74

Physical Appearance: White solid

**Minimum Purity:** >99%

**Batch Molecular Structure:**



**Storage:** Store at RT

**Solubility & Usage Info:**

DMSO to 100 mM

ethanol 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:**

Merck Index **12** 6309.

**Burkard et al** (1989) Pharmacological profile of moclobemide, a short-acting and reversible inhibitor of monoamine oxidase type A. *J.Pharmacol.Exp.Ther.* **248** 391. PMID: 2913284.

**Prada et al** (1989) Neurochemical profile of moclobemide, a short-acting and reversible inhibitor of monoamine oxidase type A. *J.Pharmacol.Exp.Ther.* **248** 400. PMID: 2783611.

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