

# **Certificate of Analysis**

Print Date: Mar 22nd 2023

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**Product Name: Desipramine hydrochloride**  Catalog No.: 3067

Batch No.: 5

CAS Number: 58-28-6 EC Number: 200-373-1

**IUPAC Name:** 10-11-Dihydro-*N*-methyl-5*H*-dibenz(*Z*)[*b*,*f*]azepine-5-propanamine hydrochloride

## 1. PHYSICAL AND CHEMICAL PROPERTIES

 $C_{18}H_{22}N_2.HCI$ **Batch Molecular Formula:** 

**Batch Molecular Weight:** 302.84 **Physical Appearance:** White solid

water to 100 mM Solubility: Storage: Desiccate at +4°C

**Batch Molecular Structure:** 

#### 2. ANALYTICAL DATA

HPLC: Shows 100.0% purity

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

Microanalysis: Carbon Hydrogen Nitrogen

> Theoretical 71.39 7.66 9.25 Found 71.41 7.87 9.11

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# **Product Information**

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#### **Description:**

Desipramine hydrochloride is a tricyclic antidepressant that is a selective inhibitor of noradrenalin transporters ( $K_i$  values are 4, 61 and 78720 nM for NET, SERT and DAT transporters respectively).

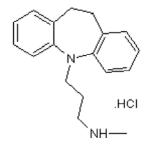
#### **Physical and Chemical Properties:**

Batch Molecular Formula: C<sub>18</sub>H<sub>22</sub>N<sub>2</sub>.HCl

Batch Molecular Weight: 302.84 Physical Appearance: White solid

Minimum Purity: ≥99%

#### **Batch Molecular Structure:**



Storage: Desiccate at +4°C

#### Solubility & Usage Info:

water 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:

**Zhao** *et al* (2008) NE transporter regulation mediates the long-term behavioral effects of the antidepressant desipr. Neuropsychopharmacol. **33** 3190.

**Torres** *et al* (2003) Plasma membrane monoamine transporters: structure, regulation and function. Nat.Rev.Neurosci. *4* 13. PMID: 12511858.

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