

Certificate of Analysis

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Product Name: Desipramine hydrochloride

Catalog No.: 3067

Batch No.: 5

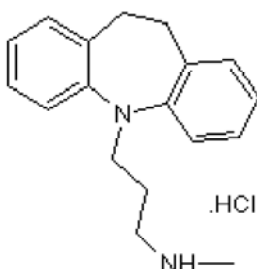
CAS Number: 58-28-6

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

Batch Molecular Formula: C₁₈H₂₂N₂.HCl
Batch Molecular Weight: 302.84
Physical Appearance: White solid
Solubility: water to 100 mM
Storage: Desiccate at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 100% purity
¹H 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

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

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Description:

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:

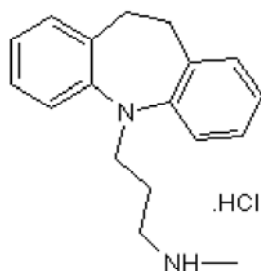
Batch Molecular Formula: C₁₈H₂₂N₂.HCl

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) Norepinephrine transporter regulation mediates the long-term behavioral effects of the antidepressant desipramine. *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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