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Print Date: Jan 15th 2016

Certificate of Analysis

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Product Name: **Nefazodone hydrochloride** **Catalog No.: 2777** **Batch No.: 1**

CAS Number: 82752-99-6

IUPAC Name: 2-[3-[4-(3-Chlorophenyl)-1-piperazinyl]propyl]-5-ethyl-2,4-dihydro-4-(2-phenoxyethyl)-3*H*-1,2,4-triazol-3-one hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{25}H_{32}ClN_5O_2.HCl$

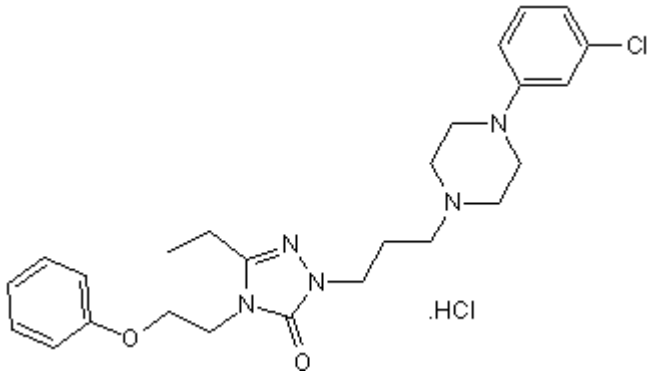
Batch Molecular Weight: 506.47

Physical Appearance: White crystalline solid

Solubility: 1eq. HCl to 10 mM
DMSO to 25 mM
ethanol to 10 mM

Storage: Desiccate at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

Melting Point: Between 186 - 188°C

HPLC: Shows >99.9% purity

^{1}H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	59.28	6.57	13.83
Found	59.18	6.63	13.83

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Product Information

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Description:

Serotonin 5-HT_{2A} receptor antagonist (K_i = 5.8 nM) and inhibitor of serotonin and noradrenalin uptake (IC_{50} values are 290 and 300 nM respectively). Displays no activity at 5-HT_{1B} and 5-HT_{1D} receptors. Active in models predictive of antidepressant potential.

Physical and Chemical Properties:

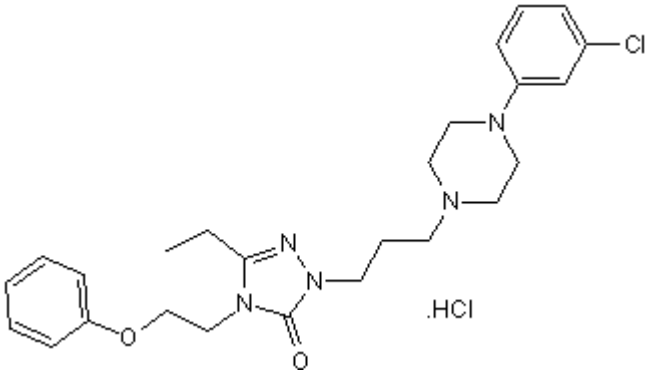
Batch Molecular Formula: $C_{25}H_{32}ClN_5O_2$.HCl

Batch Molecular Weight: 506.47

Physical Appearance: White crystalline solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Desiccate at RT

Solubility & Usage Info:

1eq. HCl to 10 mM
DMSO to 25 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).

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:

Eison *et al* (1990) Nefazodone: preclinical pharmacology of a new antidepressant. Psychopharmacol.Bull. ***26*** 311. PMID: 2274630.

Davis *et al* (1997) Nefazodone. A review of its pharmacology and clinical efficacy in the management of major depression. Drugs ***53*** 608. PMID: 9098663.

Pullar *et al* (2000) LY367265, an inhibitor of the 5-hydroxytryptamine transporter and 5-hydroxytryptamine$_{2A}$ receptor antagonist: a comparison with the antidepressant, nefazodone. Eur.J.Pharmacol. ***407*** 39. PMID: 11050288.

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