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Print Date: Jan 14th 2016

Certificate of Analysis

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Product Name: Bicifadine hydrochloride

Catalog No.: 4357 Batch No.: 1

CAS Number: 66504-75-4 IUPAC Name: 1-(4-Methylp

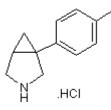
1-(4-Methylphenyl)-3-azabicyclo[3.1.0]hexane hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: Batch Molecular Weight: Physical Appearance: Solubility:

Batch Molecular Structure:

C₁₂H₁₅N.HCl 209.72 White solid water to 100 mM DMSO to 100 mM Desiccate at RT



2. ANALYTICAL DATA

Storage:

 TLC:
 R_f = 0.45 (Chloroform:Methanol:Ammonia soln. [90:10:0.1])

 HPLC:
 Shows 98.5% purity

 ¹H NMR:
 Consistent with structure

 Mass Spectrum:
 Consistent with structure

 Microanalysis:
 Carbon Hydrogen Nitrogen

 Theoretical 68.73
 7.69
 6.68

Found 68.52 7.62 6.69

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

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Description:

Potent antagonist of the noradrenalin transporter ($IC_{50} = 55 \text{ nM}$); also displays antagonist activity at the 5-HT and dopamine transporters (IC_{50} values are 117 nM and 910 nM respectively). Orally active. Exhibits antinociceptive and antiallodynic activity in rodent models of acute, persistent, and chronic pain.

Physical and Chemical Properties:

Batch Molecular Formula: C₁₂H₁₅N.HCl Batch Molecular Weight: 209.72 Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:

А НСІ

Storage: Desiccate at RT

Solubility & Usage Info: water 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:

Epstein (1981) 1-Aryl-3-azabicyclo[3.1.0]hexanes, a new series of nonnarcotic analgesic agents. J.Med.Chem. 24 (5) 481. PMID: 7241504.

Basile (2007) Characterization of the antinociceptive actions of bicifadine in models of acute, persistent, and chronic pain. J.Pharmacol.Exp.Ther **321** (3) 1208. PMID: 17325229.

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