

Certificate of Analysis

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Product Name: Midazolam hydrochloride

Catalog No.: 2832

Batch No.: 3

CAS Number: 59467-96-8

EC Number: 261-776-6

IUPAC Name: 8-Chloro-6-(2-fluorophenyl)-1-methyl-4*H*-imidazo[1,5-*a*][1,4]benzodiazepine hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₈H₁₃ClFN₃.HCl

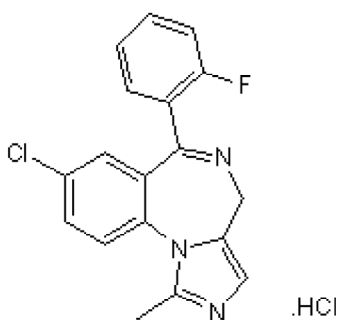
Batch Molecular Weight: 362.23

Physical Appearance: White solid

Solubility: water to 25 mM

Storage: Desiccate at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.6% purity

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

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Product Information

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IUPAC Name: 8-Chloro-6-(2-fluorophenyl)-1-methyl-4*H*-imidazo[1,5-*a*][1,4]benzodiazepine hydrochloride

Description:

Midazolam hydrochloride is a sedative/hypnotic agent that acts at the GABA_A receptor benzodiazepine modulatory site.

Physical and Chemical Properties:

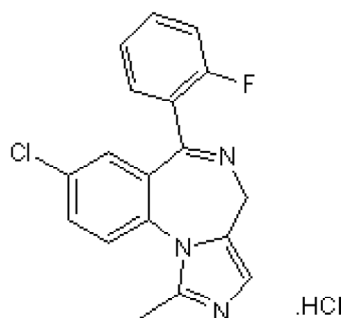
Batch Molecular Formula: C₁₈H₁₃ClFN₃.HCl

Batch Molecular Weight: 362.23

Physical Appearance: White solid

Minimum Purity: ≥99%

Batch Molecular Structure:



Storage:

Desiccate at RT
CAUTION - This product is light sensitive and we recommend that the solid material and any solutions obtained are protected from exposure to light.

Solubility & Usage Info:

water to 25 mM

The solubility of Midazolam hydrochloride in water is pH dependent. At pH 3.5, the solubility is greater than 25mM.

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. *Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

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.

Other Information:

INFORMATION FOR CUSTOMERS IN THE UK ONLY

This product is a Schedule 3 Home Office controlled substance and customers in the UK are required to hold the relevant licence or be exempt from restrictions in order to purchase and possess this material.

References:

Olkkola and Ahonen (2008) Midazolam and other benzodiazepines. *Handb.Exp.Pharmacol.* **182** 335. PMID: 18175099.

Kanto (1985) Midazolam: the first water-soluble benzodiazepine. *Pharmacology, pharmacokinetics and efficacy in insomnia and anesthesia. Pharmacotherapy* **5** 138. PMID: 3161005.

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