

Certificate of Analysis

Product Name: MDL 73005EF hydrochloride

Catalog No.: 0411

Batch No.: 2

CAS Number: 102908-60-1

IUPAC Name: 8-[2-(1,4-Benzodioxan-2-ylmethylamino)ethyl]-8-azaspiro[4.5]decane-7,9-dione hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₀H₂₆N₂O₄·HCl

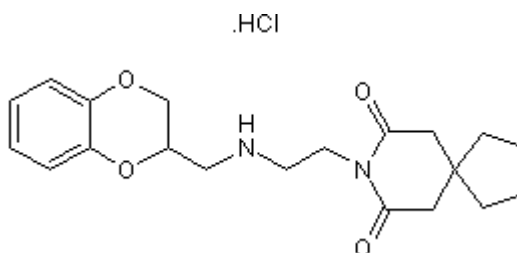
Batch Molecular Weight: 394.9

Physical Appearance: White solid

Solubility: water to 25 mM

Storage: Store at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.7 (Dichloromethane:Methanol:Ammonia soln. [9:1:5])

HPLC: Shows >98.96% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	60.83	6.89	7.09
Found	60.84	6.94	7.03

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Description:

Potent and selective 5-HT_{1A} receptor antagonist. Has partial agonist properties.

Physical and Chemical Properties:

Batch Molecular Formula: C₂₀H₂₆N₂O₄.HCl

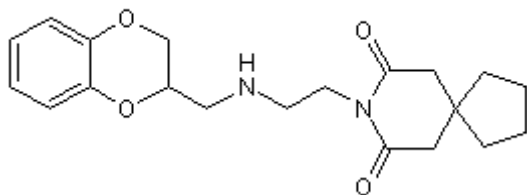
Batch Molecular Weight: 394.9

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:

.HCl



Storage: Store at RT

Solubility & Usage Info:

water to 25 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:

Gartside et al (1990) Effects of MDL 73005EF on central pre-and-postsynaptic 5HT_{1A} receptor function in the rat *in vivo*. Eur.J.Pharmacol. **191** 391. PMID: 1964908.

Van der Hooff and Galvan (1991) Electrophysiology of the 5-HT_{1A} ligand MDL 73005EF in the rat hippocampal slice. Eur.J.Pharmacol. **196** 291. PMID: 1893914.

Buisson Defferier and Van den Buuse (1992) Cardiovascular effects of the 5-HT_{1A} receptor ligand, MDL 73005EF, in conscious hypertensive rats. Eur.J.Pharmacol. **223** 133. PMID: 1362161.

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