

Certificate of Analysis

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Product Name: 4F 4PP oxalate

Catalog No.: 0523

Batch No.: 3

CAS Number: 144734-36-1

IUPAC Name: 4-(4-Fluorobenzoyl)-1-(4-phenylbutyl)piperidine oxalate

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₂H₂₆FNO.C₂H₂O₄

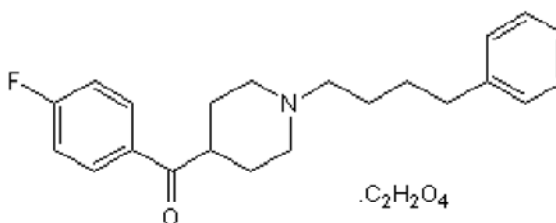
Batch Molecular Weight: 429.49

Physical Appearance: Off-white solid

Solubility: DMSO to 100 mM
ethanol to 20 mM

Storage: Store at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.43 (Ethyl acetate:Triethylamine [99:1])

Melting Point: Between 187 - 188°C

HPLC: Shows 99.1% purity

¹H NMR: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	67.12	6.57	3.26
Found	66.78	6.56	3.44

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

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IUPAC Name: 4-(4-Fluorobenzoyl)-1-(4-phenylbutyl)piperidine oxalate

Description:

4F 4PP oxalate is a selective 5-HT_{2A} antagonist with almost as high affinity ($K_i = 5.3$ nM) as Ketanserin (Cat. No. 0908) but with a much lower affinity for 5-HT_{2C} sites ($K_i = 620$ nM).

Physical and Chemical Properties:

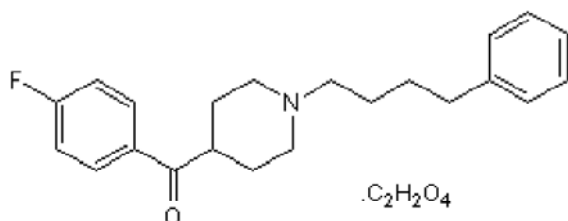
Batch Molecular Formula: C₂₂H₂₆FNO.C₂H₂O₄

Batch Molecular Weight: 429.49

Physical Appearance: Off-white solid

Minimum Purity: ≥99%

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

DMSO to 100 mM

ethanol to 20 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:

Hagberg *et al* (1998) Stimulation of 5-HT_{2A} receptors on astrocytes in primary culture opens voltage-independent Ca²⁺ channels. *Neurochem.Int.* **32** 153. PMID: 9542727.

Herndon *et al* (1992) Ketanserin analogues - structure affinity relationships of 5HT₂ and 5HT_{1C} serotonin receptor binding. *J.Med.Chem.* **35** 4903. PMID: 1479590.

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