Certificate of Analysis

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: $C_{22}H_{26}FNO.C_2H_2O_4$

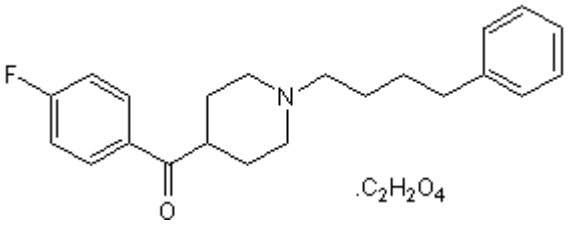
Batch Molecular Weight: 429.49

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 >99.2% purity

^{1}H NMR: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	67.12	6.57	3.26
Found	66.78	6.56	3.44

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Description:

A selective 5-HT_{2A} antagonist with almost as high affinity (K_i = 5.3 nM) as ketanserin but with a much lower affinity for 5-HT_{2C} sites (K_i = 620 nM).

Physical and Chemical Properties:

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Batch Molecular Weight: 429.49

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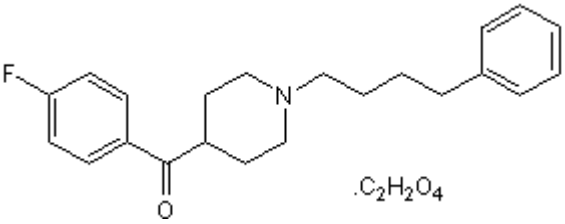
Minimum Purity: >99%

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:

Herndon *et al* (1992) Ketanserin analogues - structure affinity relationships of $5HT_2$ and $5HT_{1C}$ serotonin receptor binding. J.Med.Chem. ***35*** 4903. PMID: 1479590.

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