

Certificate of Analysis

Product Name: 3'-Fluorobenzylpiperone maleate

Catalog No.: 0701

Batch No.: 1

CAS Number: 1135278-61-3

IUPAC Name: 8-[4-(4-Fluorophenyl)-4-oxobutyl]-(3-fluorobenzyl-1-phenyl)-1,3,8-triazaspiro[4,5]decan-4-one maleate

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{30}H_{31}F_2N_3O_2 \cdot C_4H_4O_4$

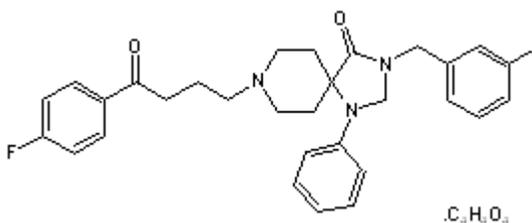
Batch Molecular Weight: 619.67

Physical Appearance: White crystalline solid

Solubility: Soluble in DMSO

Storage: Store at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

Melting Point: Between 134 - 136°C

HPLC: Shows >98% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	65.9	5.69	6.78
Found	65.75	5.68	6.72

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

Product Name: 3'-Fluorobenzylspiperone maleate

Catalog No.: 0701

Batch No.: 1

CAS Number: 1135278-61-3

IUPAC Name: 8-[4-(4-Fluorophenyl)-4-oxobutyl]-(3-fluorobenzyl-1-phenyl)-1,3,8-triazaspiro[4,5]decan-4-one maleate

Description:

A very potent and selective ligand for the D₂ receptor (K_i = 0.023 nM). Compared with spiperone, displays a 2.5-fold greater affinity at D₂ and a 12-fold lower affinity at 5-HT₂ receptors.

Physical and Chemical Properties:

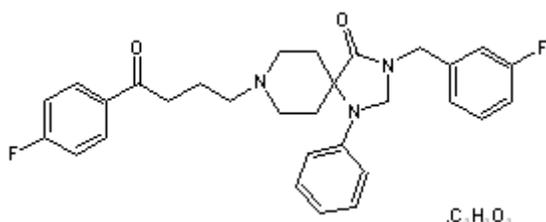
Batch Molecular Formula: C₃₀H₃₁F₂N₃O₂·C₄H₄O₄

Batch Molecular Weight: 619.67

Physical Appearance: White crystalline solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

Soluble in DMSO

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:

Mach et al (1992) Effect of N-alkylation on the affinities of analogues of spiperone for dopamine D₂ and serotonin 5-HT₂ receptors. *J.Med.Chem.* **35** 423. PMID: 1531364.

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