

Product Name: WAY 100635 maleate

Catalog No.: 4380

Batch No.: 2

CAS Number: 1092679-51-0

IUPAC Name: *N*-[2-[4-(2-Methoxyphenyl)-1-piperazinyl]ethyl]-*N*-2-pyridinylcyclohexanecarboxamide maleate

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₅H₃₄N₄O₂·C₄H₄O₄· $\frac{3}{4}$ H₂O

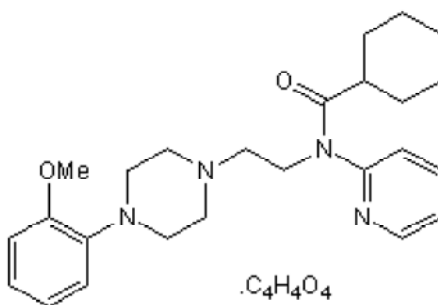
Batch Molecular Weight: 552.15

Physical Appearance: Off White solid

Solubility: water to 25 mM

Storage: Desiccate at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.43 (Dichloromethane:Methanol [88:12])

HPLC: Shows 98.9% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	63.08	7.21	10.15
Found	63.14	7.04	10.32

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Description:

Potent, silent antagonist of 5-HT_{1A} receptors (IC₅₀ = 2.2 nM; K_i = 0.84 nM for rat 5-HT_{1A} receptors). Displays 100-fold selectivity for 5-HT_{1A} over other 5-HT subtypes. Also exhibits agonist activity at dopamine D₄ receptors.

Physical and Chemical Properties:

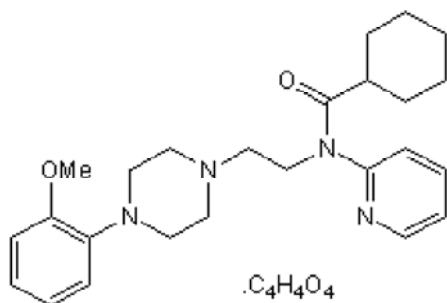
Batch Molecular Formula: C₂₅H₃₄N₄O₂.C₄H₄O₄.¾H₂O

Batch Molecular Weight: 552.15

Physical Appearance: Off White solid

Minimum Purity: ≥99%

Batch Molecular Structure:



Storage: Desiccate 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:

Chemel et al (2006) WAY-100635 is a potent DA D₄ receptor agonist. *Psychopharmacology* (Berl). **188** 244. PMID: 16915381.

Mensonides-Harsema et al (2000) Synthesis and in vitro and in vivo functional studies of *ortho*-substituted phenylpiperazine and *N*-substituted 4-*N*-(*o*-methoxyphenyl)aminopiperidine analogues of WAY100635. *J.Med.Chem.* **43** 432. PMID: 10669570.

Forster et al (1995) A pharmacological profile of the selective silent 5-HT_{1A} receptor antagonist, WAY-100635. *Eur.J.Pharmacol.* **281** 81. PMID: 8566121.

Zhuang et al (1994) Synthesis and evaluation of 4-(2'-methoxyphenyl)-1-[2'-[*N*-(2"-pyridinyl)-*p*-iodobenzamido]ethyl]piperazine (*p*-MPPI): a new iodinated 5-HT_{1A} ligand. *J.Med.Chem.* **37** 1406. PMID: 8182697.

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