TOCRIS
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Print Date: Jan 18th 2016

Certificate of Analysis

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Product Name: **Paroxetine maleate** **Catalog No.: 2141** **Batch No.: 2**

CAS Number: 64006-44-6

IUPAC Name: (3*S*,4*R*)-3-[(1,3-Benzodioxol-5-yloxy)methyl]-4-(4-fluorophenyl)-piperidine maleate

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{19}H_{20}FNO_3.C_4H_4O_4$

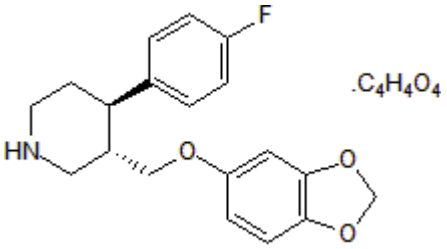
Batch Molecular Weight: 445.44

Physical Appearance: Light pink solid

Solubility: ethanol to 100 mM
DMSO to 100 mM

Storage: Store at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.3 (Dichloromethane:Methanol [9:1])

HPLC: Shows >99.5% purity

^{1}H NMR: Consistent with structure

Optical Rotation: $[\alpha]_D$ = -70.42 (Concentration = 0.14, Solvent = Ethanol)

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	62.02	5.43	3.14
Found	62.01	5.45	3.05

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

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Description:

Highly potent and selective 5-HT uptake inhibitor that binds with high affinity to the serotonin transporter (K_i = 0.05 nM). K_i values are 1.1, 350 and 1100 nM for inhibition of [^{3}H]-5-HT, [^{3}H]-l-NA and [^{3}H]-DA uptake respectively. Displays minimal affinity for α_1-, α_2- or β-adrenoceptors, 5-HT_{2A}, 5-HT_{1A}, D_2 or H_1 receptors at concentrations below 1000 nM, however displays weak affinity for muscarinic ACh receptors (K_i = 42 nM). Antidepressant and anxiolytic in vivo.

Physical and Chemical Properties:

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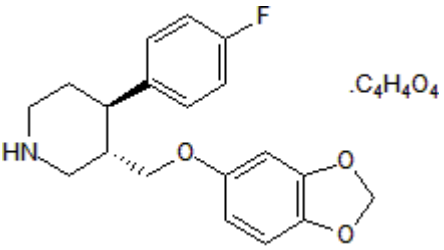
Batch Molecular Weight: 445.44

Physical Appearance: Light pink solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Store at RT

CAUTION - This product is light sensitive and we recommend that the solid material and any solutions obtained are protected from exposure to light.

Solubility & Usage Info:

ethanol to 100 mM
DMSO to 100 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:

Thomas *et al* (1987) Biochemical effects of the antidepressant paroxetine, a specific 5-hydroxytryptamine uptake inhibitor. Psychopharmacology ***93*** 193. PMID: 2962217.

Owens *et al* (1997) Neurotransmitter receptor and transporter binding profile of antidepressants and their metabolites. J.Pharmacol.Exp.Ther. ***283*** 1305. PMID: 9400006.

Bourin *et al* (2001) Paroxetine: a review. CNS Drug Rev. ***7*** 25. PMID: 11420571.

Fujishiro *et al* (2002) Comparison of the anticholinergic effects of the serotonergic antidepressants, paroxetine, fluvoxamine and clomipramine. Eur.J.Pharmacol. ***454*** 183. PMID: 12421645.

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