

Product Name: A 80426 mesylate

Catalog No.: 2341

Batch No.: 1

CAS Number: 152148-64-6

IUPAC Name: *N*-Methyl-*N*-[[*(1R)*-1,2,3,4-tetrahydro-5-methoxy-1-naphthaleny]methyl]-6-benzofuranethanamine mesylate

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₃H₂₇NO₂.CH₃SO₃H

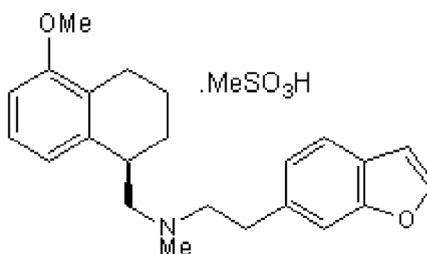
Batch Molecular Weight: 445.57

Physical Appearance: White solid

Solubility: water to 10 mM
DMSO to 100 mM

Storage: Desiccate at +4°C

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.34 (Dichloromethane:Methanol [95:5])

Melting Point: Between 192 - 195°C

HPLC: Shows >99.0% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Optical Rotation: [α]_D = +4.4 (Concentration = 0.5, Solvent = DMSO)

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	64.69	7.01	3.14
Found	64.68	7.26	3.13

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Description:

A 80426 mesylate is a high affinity α_2 -adrenoceptor antagonist and selective 5-HT uptake inhibitor (K_i values are 2.01 and 3.77 nM respectively). Displays low affinity at a variety of structurally homologous GPCRs.

Physical and Chemical Properties:

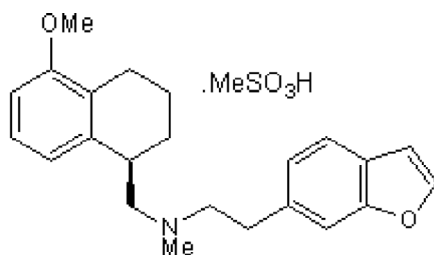
Batch Molecular Formula: $C_{23}H_{27}NO_2 \cdot CH_3SO_3H$

Batch Molecular Weight: 445.57

Physical Appearance: White solid

Minimum Purity: $\geq 98\%$

Batch Molecular Structure:



Storage: Desiccate at +4°C

Solubility & Usage Info:

water to 10 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. *Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

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:

Giardina et al (1995) A-80426, a potent and selective β_2 -adrenoceptor antagonist with serotonin uptake-blocking activity and putative antidepressant-like effects: II. Pharmacology profile. *Drug Devel.Res.* **35** 246.

Meyer et al (1995) Synthesis and pharmacological characterisation of A-80426: a putative novel antidepressant combining α_2 -antagonism with 5-HT uptake inhibition. *Bioorg.Med.Chem.Letts.* **5** 2287.

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