TOCRIS
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Print Date: Jan 13th 2016

Certificate of Analysis

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Product Name: **AMI-193** **Catalog No.: 0524** **Batch No.: 3**

CAS Number: 510-74-7

IUPAC Name: 8-[3-(4-Fluorophenoxy)propyl]-1-phenyl-1,3,8-triazaspiro[4.5]-decanone

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{22}H_{26}FN_3O_2.¾H_2O$

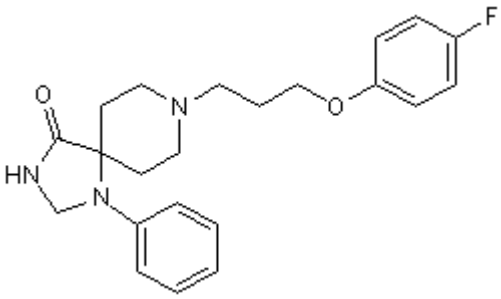
Batch Molecular Weight: 396.97

Physical Appearance: White solid

Solubility: DMSO to 75 mM
ethanol to 5 mM with gentle warming

Storage: Store at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.6% purity

^{1}H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	66.56	6.98	10.59
Found	66.58	6.62	10.72

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Description:

Selective 5-HT antagonist, which binds to 5-HT_2 sites as potently as spiperone but has lower affinity for 5-HT_{2C} receptors. Also a high affinity D_2 receptor antagonist (K_i = 3 nM). Lacks the disruptive effect of spiperone on animal behavior.

Physical and Chemical Properties:

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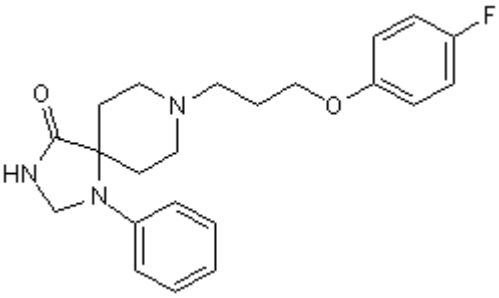
Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

DMSO to 75 mM
ethanol to 5 mM with gentle warming

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:

Ismaiel *et al* (1993) Antagonism of 1-(2,5-dimethoxy-4-methylphenyl)-2-aminopropane stimulus with a newly identified 5HT_2 versus 5HT_{1C} selective antagonist. J.Med.Chem. ***36*** 2519. PMID: 8355253.

Czoty *et al* (2000) Behavioural effects of AMI-193, a 5-HT_{2A}- and dopamine D_2-receptor antagonist, in the squirrel monkey. Pharmacol.Biochem.Behav. ***67*** 257. PMID: 11124389.

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