

Product Name: AS 19

Catalog No.: 1968

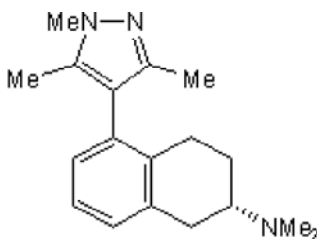
Batch No.: 8

CAS Number: 1000578-26-6

IUPAC Name: (2S)-5-(1,3,5-Trimethylpyrazol-4-yl)-2-(dimethylamino)tetralin

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₈H₂₅N₃
Batch Molecular Weight: 283.41
Physical Appearance: Yellow oil
Solubility: ethanol to 100 mM
DMSO to 100 mM
Storage: Desiccate at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.2 (Ethyl acetate:Triethylamine [9:1])
HPLC: Shows 99.4% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Optical Rotation: [α]_D = -35.6 (Concentration = 0.89, Solvent = Chloroform)

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

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IUPAC Name: (2S)-5-(1,3,5-Trimethylpyrazol-4-yl)-2-(dimethylamino)tetralin

Description:

Potent 5-HT₇ receptor agonist (IC₅₀ = 0.83 nM). Enhances memory consolidation and reverses scopolamine- or dizocilpine-induced amnesia in vivo.

Physical and Chemical Properties:

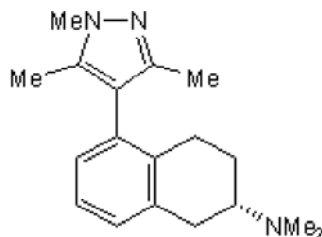
Batch Molecular Formula: C₁₈H₂₅N₃

Batch Molecular Weight: 283.41

Physical Appearance: Yellow oil

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Desiccate at -20°C

Solubility & Usage Info:

ethanol to 100 mM

DMSO to 100 mM

This product is supplied as a lyophilized oil and may be very hard to visualize. Solutions should be made by adding solvent directly to the vial. The vial should then be vortexed vigorously to ensure the product has completely dissolved.

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:

Horiguchi *et al* (2011) The role of 5-hydroxytryptamine 7 receptors in the phencyclidine-induced novel object recognition deficit in rats. *J.Pharmacol.Exp.Ther.* **338** 605. PMID: 21558435.

Perez-Garcia *et al* (2006) An mRNA expression analysis of stimulation and blockade of 5-HT₇ receptors during memory consolidation. *Behav.Brain Res.* **169** 83. PMID: 16480781.

Perez-Garcia and Meneses (2005) Effects of the potential 5-HT₇ receptor agonist AS 19 in an autoshaping learning task. *Behav.Brain Res.* **163** 136. PMID: 15936093.

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