

**Product Name:** AS 19

**Catalog No.:** 1968

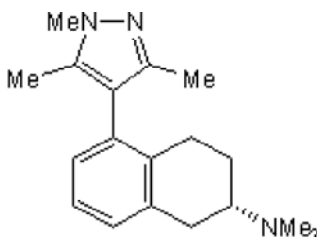
**Batch No.:** 8

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:** C<sub>18</sub>H<sub>25</sub>N<sub>3</sub>  
**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<sub>f</sub> = 0.2 (Ethyl acetate:Triethylamine [9:1])  
**HPLC:** Shows 98.9% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure  
**Optical Rotation:** [α]<sub>D</sub> = -35.6 (Concentration = 0.89, Solvent = Chloroform)

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**Description:**

AS 19 is a potent 5-HT<sub>7</sub> receptor agonist (IC<sub>50</sub> = 0.83 nM). Enhances memory consolidation and reverses scopolamine- or dizocilpine-induced amnesia in vivo. AS 19 also promotes melanin synthesis in B16F10 murine melanoma cells.

**Physical and Chemical Properties:**

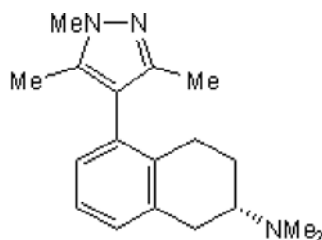
Batch Molecular Formula: C<sub>18</sub>H<sub>25</sub>N<sub>3</sub>

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:**

**Tang et al (2023)** Serotonin/5-HT<sub>7</sub> receptor provides an adaptive signal to enhance pigmentation response to environmental stressors through cAMP-PKA-MAPK, Rab27a/RhoA, and PI3K/AKT signaling pathways. *FASEB J.* **37** e22893. PMID: 36961387.

**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-HT<sub>7</sub> receptors during memory consolidation. *Behav.Brain Res.* **169** 83. PMID: 16480781.

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