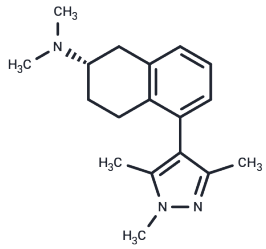
Data Sheet (Cat.No.T10380)

TargetMol

AS19

Chemical Properties



CAS No. : 1000578-26-6

Formula: C18H25N3

Molecular Weight: 283.41

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	AS19 is a potent, selective 5-HT7 receptor agonist (IC50: 0.83 nM; Ki: 0.6 nM) with demonstrated selectivity for 5-HT7 over 5-HT1A, 5-HT1B, 5-HT1D, and 5-HT5A receptors (Kis: 89.7 nM, 490 nM, 6.6 nM, and 98.5 nM, respectively).
Targets(IC50)	5-HT Receptor
In vitro	The proliferation of T-cells from parachlorophenylalanine-treated mice is significantly reduced, the addition of AS19 (1 μM) completely restores T-cell proliferation after 48 hours [2].
In vivo	AS19 (0.5-10 mg/kg; subcutaneous injection; for 24 hours; male Wistar rats) treatment improves memory consolidation in an autoshaping Pavlovian/instrumental learning task [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.5285 mL	17.6423 mL	35.2846 mL
5 mM	0.7057 mL	3.5285 mL	7.0569 mL
10 mM	0.3528 mL	1.7642 mL	3.5285 mL
50 mM	0.0706 mL	0.3528 mL	0.7057 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Perez-García GS, et al. Effects of the potential 5-HT7 receptor agonist AS 19 in an autoshaping learning task. Behav Brain Res. 2005 Aug 30;163(1):136-40.
León-Ponte M, et al. Serotonin provides an accessory signal to enhance T-cell activation by signaling through the 5-HT7 receptor. Blood. 2007 Apr 15;109(8):3139-46.
Brenchat A, et al. 5-HT7 receptor activation inhibits mechanical hypersensitivity secondary to capsaicin sensitization in mice. Pain. 2009 Feb;141(3):239-47.

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481