

Spiramide

Cat. No. ALK-0086

Lot. No. (See product label)



Product Name

Spiramide

CAS No.

510-74-7

Synonyms

AMI-193

Description

Spiramide (AMI-193) is a potent and selective antagonist of 5-HT₂ and dopamine D₂ receptor, with K_is of 2 nM and 3 nM, respectively. Spiramide has >2000-fold selectivity for 5-HT₂ versus 5-HT_{1C} (K_i=4300 nM) receptors. Spiramide exhibits antipsychotic activity.

Structural Formula

Spiramide

MW

383.46

MF

C₂₂H₂₆FN₃O₂

Purity

0.9923

Appearance

Solid

Solubility

DMSO : 20 mg/mL(52.16 mM;Need ultrasonic)

Source

Plants >Rosaceae > Spiraea japonica

IC₅₀ & Target

Human Endogenous Metabolite

Shipping

Room temperature in continental US; may vary elsewhere.

SMILES

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

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O=C1NCN(C2=CC=CC=C2)C13CCN(CCCOC4=CC=C(F)C=C4)CC3

In Vivo

AMI-193 (0.003-0.01 mg/kg; i.m.) dose-dependently decreases response rate in monkeys under a fixed-interval (FI) schedule of stimulus termination. AMI-193 (0.003-0.01 mg/kg; i.m.) attenuates the discriminative-stimulus effects of cocaine in drug-discrimination experiments. AMI-193 (0.003-0.01 mg/kg; i.m.) reduces response rate under a second-order schedule of i.v. self-administration of cocaine (0.1 mg/infusion).

In Vitro

Spiramide retains affinity for 5-HT_{1A} sites (K_i =50 nM) and also binds at dopamine D₂ sites (K_i =3 nM), but possesses low affinity for dopamine D₁ sites (K_i =2530 nM).

Storage

-20°C, stored under nitrogen

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