

Product Data Sheet

Product Name: Pizotifen
Cat. No.: GC13053

Chemical Properties

Cas. No. 15574-96-6

Chemical Name 4-(4,5-dihydrobenzo[1,2]cyclohepta[3,4-b]thiophen-10-ylidene)-1-methylpiperidine

SMILES CN1CCC(=C2C3=C(CCC4=CC=CC=C42)SC=C3)CC1

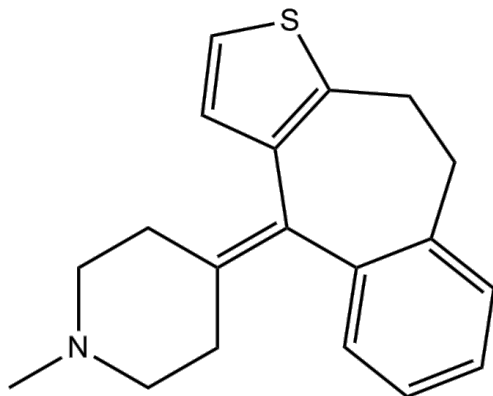
Formula $C_{19}H_{21}NS$ M.Wt 295.44

Solubility $\geq 14.77\text{mg/mL}$ in DMSO Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37°C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice. All other available size: ship with RT, or blue ice upon request.

Structure



Background

Pizotifen (BC-105) is a potent 5-HT₂ receptor antagonist, with a high affinity for 5-HT_{1C} binding site.

Pizotifen (BC-105) is a potent 5-HT₂ receptor antagonist, with a high affinity for 5-HT_{1C} binding site[1]. Pizotifen is an antidepressant 5-HT_{2A} receptor antagonist and has the capacity to inhibit serotonin-enhanced ADP-induced platelet aggregation[2].

The weights of the fetuses are significantly reduced by all administered doses of Pipethiadene and

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Pizotifen (BC-105); the weights of the placentas are significantly reduced after 0.6 and 1.2 mg/kg Pipethiadene and only after the middle dose of Pizotifen. The means of the implantations, live, dead fetuses, resorptions and the occurrence of external, skeletal and visceral anomalies do not differ from the control group. The number of chromosome aberrations in the bone marrow cells of treated mice does not differ significantly from the negative control group. The micronucleus test reveals no elevation in the frequency of micronuclei as compared to the control group. After the two higher doses of both Pipethiadene and Pizotifen (BC-105) maleate, the mitotic indices are lower than in the control group[3].

References:

- [1]. Mylecharane EJ, et al. 5-HT₂ receptor antagonists and migraine therapy. J Neurol. 1991;238 Suppl 1:S45-52.
- [2]. Lin OA, et al. The antidepressant 5-HT_{2A} receptor antagonists pizotifen and cyproheptadine inhibit serotonin-enhanced platelet function. PLoS One. 2014 Jan 23;9(1):e87026.
- [3]. Ujházy E, et al. Teratological and cytogenetical evaluation of two antihistamines (pipethiadene and pizotifen maleate) in mice. Agents Actions. 1988 Apr;23(3-4):376-8.

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