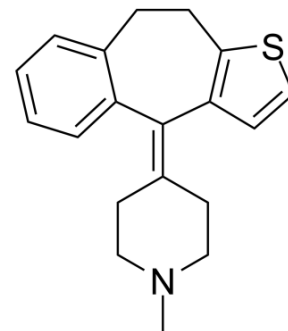


Pizotifen

Cat. No.:	HY-B0115		
CAS No.:	15574-96-6		
Molecular Formula:	C ₁₉ H ₂₁ NS		
Molecular Weight:	295.44		
Target:	5-HT Receptor		
Pathway:	GPCR/G Protein; Neuronal Signaling		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 20 mg/mL (67.70 mM; Need ultrasonic)
 H₂O : < 0.1 mg/mL (insoluble)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	3.3848 mL	16.9239 mL	33.8478 mL
	5 mM	0.6770 mL	3.3848 mL	6.7696 mL
	10 mM	0.3385 mL	1.6924 mL	3.3848 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
 Solubility: ≥ 2 mg/mL (6.77 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
 Solubility: ≥ 2 mg/mL (6.77 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
 Solubility: ≥ 2 mg/mL (6.77 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

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

IC₅₀ & Target

5-HT_{2A} Receptor

5-HT_{1C} Receptor

In Vitro

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].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

In Vivo

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

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- PLoS Negl Trop Dis. 2019 Aug 20;13(8):e0007681.
- Exp Ther Med. 2020 Feb;19(2):817-824.

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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.

Caution: Product has not been fully validated for medical applications. For research use only.

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