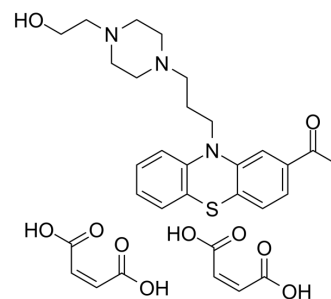


Acetophenazine dimaleate

Cat. No.:	HY-B1262
CAS No.:	5714-00-1
Molecular Formula:	C ₃₁ H ₃₇ N ₃ O ₁₀ S
Molecular Weight:	643.7
Target:	Dopamine Receptor
Pathway:	GPCR/G Protein; Neuronal Signaling
Storage:	4°C, stored under nitrogen

* In solvent : -80°C, 6 months; -20°C, 1 month (stored under nitrogen)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 125 mg/mL (194.19 mM; Need ultrasonic)					
	H ₂ O : 8.33 mg/mL (12.94 mM; ultrasonic and warming and heat to 60°C)					
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
			1 mM	1.5535 mL	7.7676 mL	15.5352 mL
			5 mM	0.3107 mL	1.5535 mL	3.1070 mL
10 mM			0.1554 mL	0.7768 mL	1.5535 mL	
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: PBS Solubility: 5 mg/mL (7.77 mM); Clear solution; Need ultrasonic and warming and heat to 60°C					
	2. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.08 mg/mL (3.23 mM); Clear solution					
	3. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (3.23 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	Acetophenazine dimaleate, a phenothiazine derivative, is an antipsychotic agent. Acetophenazine dimaleate primarily blocks dopamine D ₂ receptors in the brain. Acetophenazine dimaleate can be used for researching psychotic disorders such as schizophrenia and anxious depression ^{[1][2]} .
IC ₅₀ & Target	D ₂ Receptor
In Vivo	Acetophenazine (2.4 mg/kg; i.h.; single dosage) significantly prolongs the time lapse from the first fight to submission and the actual fighting time to submission in mice ^[3] .

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

Animal Model:	C57BL mice (10-12 weeks) ^[3]
Dosage:	2.4 mg/kg
Administration:	i.h.; single dosage
Result:	Significantly prolonged the time lapse from the first fight to submission and the actual fighting time to submission.

REFERENCES

- [1]. Azam Bazrafshan, et al. Acetophenazine versus chlorpromazine for schizophrenia. Cochrane Database of Systematic Reviews. 2015, Issue 4.
- [2]. KNIGHT WR, HOLTZ JR, SPROGIS GR. ACETOPHENAZINE AND FIGHTING BEHAVIOR IN MICE. Science. 1963 Aug 30;141(3583):830-1.
- [3]. Hollister LE, et al. Acetophenazine and diazepam in anxious depressions. Arch Gen Psychiatry. 1971 Mar;24(3):273-8.
-

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA