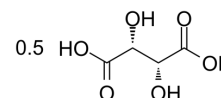
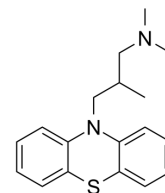


Alimemazine hemitartrate

Cat. No.:	HY-12752A
CAS No.:	4330-99-8
Molecular Formula:	$C_{18}H_{22}N_2S \cdot 1/2 C_4H_6O_6$
Molecular Weight:	373.49
Target:	Histamine Receptor
Pathway:	GPCR/G Protein; Immunology/Inflammation; Neuronal Signaling
Storage:	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro

H₂O : 100 mg/mL (267.74 mM; Need ultrasonic)
DMSO : 30 mg/mL (80.32 mM; Need ultrasonic and warming)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	2.6774 mL	13.3872 mL	26.7745 mL
	5 mM	0.5355 mL	2.6774 mL	5.3549 mL
	10 mM	0.2677 mL	1.3387 mL	2.6774 mL

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

In Vivo

- Add each solvent one by one: PBS
Solubility: 50 mg/mL (133.87 mM); Clear solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 2.5 mg/mL (6.69 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.5 mg/mL (6.69 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.5 mg/mL (6.69 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Alimemazine hemitartrate is a phenothiazine derivative that is generally used as an antipruritic agent and also a hemagglutinin (HA)-receptor antagonist.

IC₅₀ & Target

HA receptor^[1]

REFERENCES

[1]. Singh B, et al. Bioanalytical method development and validation of alimemazine in human plasma by LC-MS/MS and its application in bioequivalence studies. J Pharm Bioallied Sci. 2013 Oct;5(4):257-64.

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

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