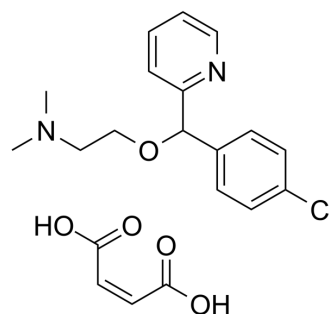


Carbinoxamine maleate salt

Cat. No.:	HY-B1589A
CAS No.:	3505-38-2
Molecular Formula:	C ₂₀ H ₂₃ ClN ₂ O ₅
Molecular Weight:	406.86
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	DMSO : 100 mg/mL (245.78 mM; Need ultrasonic)						
	H ₂ O : 50 mg/mL (122.89 mM; Need ultrasonic)						
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg	
				1 mM	2.4578 mL	12.2892 mL	24.5785 mL
				5 mM	0.4916 mL	2.4578 mL	4.9157 mL
10 mM				0.2458 mL	1.2289 mL	2.4578 mL	
Please refer to the solubility information to select the appropriate solvent.							
In Vivo	1. Add each solvent one by one: PBS Solubility: 100 mg/mL (245.78 mM); Clear solution; Need ultrasonic						
	2. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (6.14 mM); Clear solution						
	3. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (6.14 mM); Clear solution						
	4. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (6.14 mM); Clear solution						

BIOLOGICAL ACTIVITY

Description	Carbinoxamine maleate salt is a histamine H1 receptor antagonist.
IC ₅₀ & Target	histamine H1 receptor ^[1]

CUSTOMER VALIDATION

- Dis Model Mech. 2023 Mar 2;dmm.049769.

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REFERENCES

[1]. Harikrishnan A, et al. The cooperative effect of Lewis pairs in the Friedel-Crafts hydroxyalkylation reaction: a simple and effective route for the synthesis of (±)-carbinoxamine. Org Biomol Chem. 2015 Mar 28;13(12):3633-47.

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

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