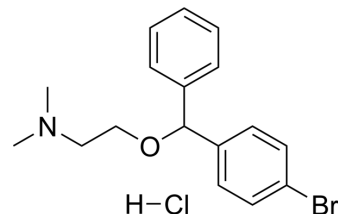


Bromodiphenhydramine hydrochloride

Cat. No.:	HY-B1568A
CAS No.:	1808-12-4
Molecular Formula:	C ₁₇ H ₂₁ BrClNO
Molecular Weight:	370.71
Target:	Histamine Receptor; Bacterial
Pathway:	GPCR/G Protein; Immunology/Inflammation; Neuronal Signaling; Anti-infection
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 : 125 mg/mL (337.19 mM; Need ultrasonic)
H₂O : 3.33 mg/mL (8.98 mM; ultrasonic and warming and heat to 60°C)

Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
		Concentration	1 mg	5 mg	10 mg
	1 mM		2.6975 mL	13.4876 mL	26.9753 mL
	5 mM		0.5395 mL	2.6975 mL	5.3951 mL
	10 mM		0.2698 mL	1.3488 mL	2.6975 mL

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

BIOLOGICAL ACTIVITY

Description

Bromodiphenhydramine hydrochloride is a potent antihistamine with antimicrobial property. Bromodiphenhydramine hydrochloride inhibits a large number of Gram negative and Gram positive bacteria. Bromodiphenhydramine hydrochloride can be used for cutaneous allergies research^{[1][2][3]}.

In Vivo

Bromodiphenhydramine hydrochloride (1.5 and 3 µg/g, single) protects mice against a challenge with a virulent strain of *Salmonella typhimurium*, and also significantly reduces the multiplication of this organism in the liver, spleen and blood of the protected animals in comparison with the unprotected controls^[2].

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

REFERENCES

- [1]. MOLINA EB. [A new antihistaminic, bromodiphenhydramine hydrochloride, in the control of cutaneous allergies]. *Sem Med*. 1960 Jul 11;117:151-2. Spanish.
- [2]. Dastidar SG, et al. Antibacterial activity of ambodryl and benadryl. *J Appl Bacteriol*. 1976 Oct;41(2):209-14.

[3]. Ray S, et al. Studies on synergism between penicillins and ambodryl (bromodiphenhydramine HCl), an antihistamine with antimicrobial property. Indian J Exp Biol. 1990 Mar;28(3):253-8.

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

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