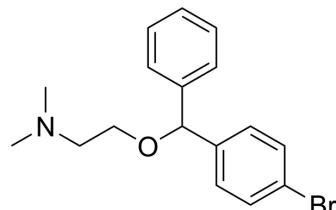


Bromodiphenhydramine

Cat. No.:	HY-B1568
CAS No.:	118-23-0
Molecular Formula:	C ₁₇ H ₂₀ BrNO
Molecular Weight:	334.25
Target:	Histamine Receptor; Bacterial
Pathway:	GPCR/G Protein; Immunology/Inflammation; Neuronal Signaling; Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

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