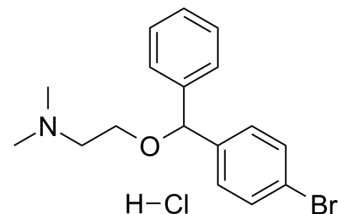


Bromodiphenhydramine hydrochloride

| | |
|---------------------------|--|
| 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)

| Concentration | Solvent | Mass | | |
|---------------------------|---------|-----------|------------|------------|
| | | 1 mg | 5 mg | 10 mg |
| Preparing Stock Solutions | 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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