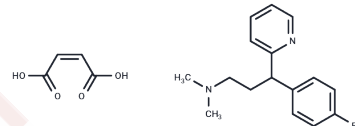


Brompheniramine maleate

Chemical Properties

| | |
|-------------------|---|
| CAS No. : | 980-71-2 |
| Formula: | C ₁₆ H ₁₉ BrN ₂ ·C ₄ H ₄ O ₄ |
| Molecular Weight: | 435.31 |
| Storage: | Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA. |



Biological Description

| | |
|---------------|--|
| Description | Brompheniramine maleate (Dimotane) is an antagonist against histamine H1 receptors. |
| Targets(IC50) | Calcium Channel,5-HT Receptor,AChR,Histamine Receptor,Potassium Channel,Sodium Channel |

Solubility Information

| | |
|---------------------|--|
| Solubility | H ₂ O: 42 mg/mL (96.48 mM),Sonication is recommended. Ethanol: 15 mg/mL (34.46 mM),Sonication is recommended. DMSO: 81 mg/mL (186.07 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble) |
| In vivo Formulation | 10% DMSO+40% PEG300+5% Tween 80+45% Saline: 3.3 mg/mL (7.58 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i> |

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|------------|------------|
| 1 mM | 2.2972 mL | 11.4861 mL | 22.9721 mL |
| 5 mM | 0.4594 mL | 2.2972 mL | 4.5944 mL |
| 10 mM | 0.2297 mL | 1.1486 mL | 2.2972 mL |
| 50 mM | 0.0459 mL | 0.2297 mL | 0.4594 mL |

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Tardioli S, et al. J Phys Chem B. 2012 Jun 21;116(24):7033-9.

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