Diphemanil methylsulfate, Quaternary ammonium anticholinergic ab145740

Overview

Product name: Diphemanil methylsulfate, Quaternary ammonium anticholinergic
Description: Quaternary ammonium anticholinergic; binds muscarinic acetylcholine receptors (mAchR).
Biological description: Quaternary ammonium anticholinergic. Exerts its action by primarily binding the muscarinic M3 receptor decreasing secretory excretion of stomach acids as well as saliva and sweat. In addition to its antimuscarinic effects, it also possesses direct smooth muscle spasmolytic activity.
Purity: > 99%
CAS Number: 62-97-5
Chemical structure:

![Chemical structure]

Properties

Chemical name: 4-Benzhydrylidene-1,1-dimethylpiperidin-1-ium methyl sulfate
Molecular weight: 389.51
Molecular formula: \( \text{C}_{20}\text{H}_{24}\text{N.CH}_3\text{O}_4\text{S} \)
Storage instructions: Store at -20°C. Store under desiccating conditions. The product can be stored for up to 12 months.
Solubility overview: Soluble in DMSO to 50 mM and in water to 50 mM
Handling: Wherever possible, you should prepare and use solutions on the same day. However, if you need to make up stock solutions in advance, we recommend that you store the solution as aliquots in tightly sealed vials at -20°C. Generally, these will be useable for up to one month. Before use, and prior to opening the vial we recommend that you allow your product to equilibrate to room temperature for at least 1 hour.

Need more advice on solubility, usage and handling? Please visit our frequently asked questions (FAQ) page for more details.

Source: Synthetic
Please note: All products are “FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE, NOT FOR USE IN HUMANS”

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