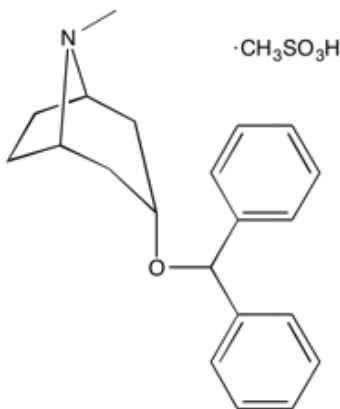


Catalog # 10-2324
Benztropine mesylate

CAS# 132-17-2

3-(Endo)-3-(diphenylmethoxy)-8-methyl-8-azabicyclo[3.2.1]octane methanesulfonate.

Lot # X106138



Centrally acting M₁ muscarinic acetylcholine receptor antagonist (K_i=0.59 nM, rat).¹ Also inhibits the dopamine transporter (K_i=160 nM).² Enhances remyelination and significantly decreases clinical severity in the experimental autoimmune encephalomyelitis model of relapsing-remitting multiple sclerosis alone or in combination with immunosuppressive agents.³ Inhibits hepatitis C virus infection.⁴

- 1) Zhang *et al.* (2001), *Synthesis and biological evaluation of tropane-like 1-[2-[bis(4-fluorophenyl)methoxy]ethyl]-4-(3-phenylpropyl)piperazine (GBR 12909) analogues*; J. Med. Chem., **44** 3937
- 2) Schmitt *et al.* (2008), *Interaction of cocaine-, benztropine-, and GBR12909-like compounds with wild-type and mutant human dopamine transporters: molecular features that differentially determine antagonist binding properties*; J. Neurochem., **107** 928
- 3) Deshmukh *et al.* (2013), *A regenerative approach to the treatment of multiple sclerosis*; Nature, **502** 327
- 4) Mingorance *et al.* (2014), *Selective inhibition of hepatitis C virus infection by hydroxyzine and benztropine*; Agents Chemother., **58** 3451

PHYSICAL DATA

| | |
|------------------------|---|
| Molecular Weight: | 403.53 |
| Molecular Formula: | C ₂₁ H ₂₅ NO • CH ₄ SO ₃ |
| Purity: | 98% by TLC |
| | NMR: (Conforms) |
| Solubility: | DMSO (up to 35 mg/ml) or Ethanol (up to 5 mg/ml with warming) |
| Physical Description: | White solid |
| Storage and Stability: | Store as supplied, desiccated at room temperature for up to 1 year from the date of purchase. Solutions in DMSO or ethanol may be stored at -20°C for up to 3 months. |

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