Atropine sulfate salt hydrate

Product Number A 0257
Store at Room Temperature

Product Description
Molecular Formula: C₃₄H₄₆N₂O₆ • H₂SO₄ (anhydrous)
Molecular Weight: 676.8
CAS Number: 5908-99-6
pKₐ: 9.9 (20 °C)¹
Melting point: 190-194 °C²

Atropine is a cholinergic receptor antagonist isolated from *Atropa belladona* L., *Datura stramonium* L., and other plants of the *Solanaceae family*.² Atropine is a competitive nonselective antagonist at central and peripheral muscarinic acetylcholine receptors.³,⁴,⁵,⁶ Excitatory junction potentials (e.g., ps.) can be blocked by atropine sulfate or tetrodotoxin, using either at micromolar concentrations. Inhibitory junction potentials are also blocked by tetrodotoxin, but were unaffected by atropine (still at micromolar levels).⁷

Precautions and Disclaimer
For Laboratory Use Only. Not for drug, household or other uses.

Preparation Instructions
Atropine sulfate is soluble in water (2,500 mg/ml), alcohol (200 mg/ml), or glycerol (400 mg/ml).²

Storage/Stability
Solutions may be stored for several days at 4 °C. Atropine sulfate can be sterilized by autoclaving.

References
2. The Merck Index, 12th Ed., Entry# 907.

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