Atropine

Product Number A 0132
Store at Room Temperature

Product Description
Molecular Formula: C\textsubscript{17}H\textsubscript{23}NO\textsubscript{3}
Molecular Weight: 289.4
CAS Number: 51-55-8
pK\textsubscript{a}: 9.9 (20 °C)\textsuperscript{1}
Melting point: 114-116 °C\textsuperscript{2}

Atropine is a cholinergic receptor antagonist isolated from \textit{Atropa belladona L.}, \textit{Datura stramonium L.}, and other plants of the \textit{Solanaceae family}.\textsuperscript{2} Atropine is a competitive nonselective antagonist at central and peripheral muscarinic acetylcholine receptors.\textsuperscript{3,4,5,6} Excitatory junction potentials (e.j. 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).\textsuperscript{7} A comprehensive description and review of atropine has been reported.\textsuperscript{8}

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

Preparation Instructions
Atropine is soluble in ethanol (500 mg/ml), glycerol (35 mg/ml), or water (2 mg/ml).\textsuperscript{2} Atropine is soluble in dilute acid.\textsuperscript{2}

Storage/Stability
Solutions may be stored for several days at 4 °C.

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