Tetracaine hydrochloride

Product Number  T 7508
Store at Room Temperature

Product Description
Molecular formula: C_{15}H_{24}N_{2}O_{2} • HCl
Molecular weight: 300.8
CAS number: 136-47-0
Melting point: 147-150 °C
pK\textsubscript{a}: 8.39
Extinction coefficients:
E\textsubscript{mm} (water) = 14.108 (225 nm), 26.352 (310 nm)
E\textsubscript{mm} (methanol) = 7.586 (226 nm), 29.512 (310 nm)

Tetracaine hydrochloride is an anesthetic. A study on its mechanism of action\textsuperscript{2} and a comprehensive description\textsuperscript{3} of this compound have been published. It blocks voltage-sensitive release of Ca\textsuperscript{2+} from sarcoplasmic reticulum. It is an inhibitor of cyclic nucleotide-gated channels.\textsuperscript{4}

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

Preparation Instructions
Tetracaine hydrochloride is soluble in water (50mg/ml), yielding a clear, colorless solution. It is also soluble in 40 parts alcohol and 30 parts chloroform. It is practically insoluble in ether, benzene, or acetone.

Storage/Stability
Aqueous solutions of tetracaine hydrochloride are stable and can be sterilized by brief boiling.\textsuperscript{1} Solutions are incompatible with alkalis. Aqueous solutions should be discarded if they contain crystals or are discolored or cloudy.\textsuperscript{5}

References
1. The Merck Index, 12th ed., Entry# 9330.