

Tetracaine (hydrochloride)

Catalog No: tcsc2587



Available Sizes

Size: 100mg



Specifications

CAS No:

136-47-0

Formula:

$C_{15}H_{25}ClN_2O_2$

Pathway:

Membrane Transporter/Ion Channel

Target:

Calcium Channel

Purity / Grade:

>98%

Solubility:

DMSO : ≥ 30 mg/mL (99.73 mM)

Alternative Names:

Amethocaine hydrochloride

Observed Molecular Weight:

300.82

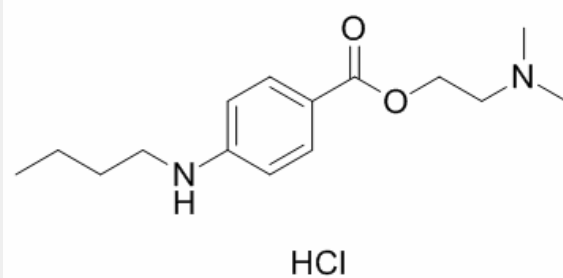
Product Description

Tetracaine HCl is a potent local anaesthetic and a channel function allosteric inhibitor.

Target: Calcium Channel

Tetracaine hydrochloride is a calcium channel protein inhibitor and blocks voltage-sensitive release of Ca^{2+} from sarcoplasmic

reticulum. Tetracaine is a potent local anesthetic of the ester group. It is mainly used topically in ophthalmology and as an antipruritic, and it has been used in spinal anesthesia. Tetracaine is used to alter the function of calcium release channels (ryanodine receptors) that control the release of calcium from intracellular stores. Tetracaine is an allosteric blocker of channel function. At low concentrations, tetracaine causes an initial inhibition of spontaneous calcium release events, while at high concentrations, tetracaine blocks release completely [1, 2].



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