Web: www.taiclone.com
Tel: +886-2-2735-9682
Email: order@taiclone.com

Dibucaine (hydrochloride)

Catalog No: tcsc2657

Available Sizes

Size: 5g

Size: 10g

Specifications

CAS No:
61-12-1

Formula:
$C_{20}H_{30}ClN_3O_2$

Pathway:
Membrane Transporter/Ion Channel

Target:
Sodium Channel

Purity / Grade:
>98%

Solubility:
10 mM in DMSO

Alternative Names:
Cinchocaine hydrochloride

Observed Molecular Weight:
379.92

Product Description

Dibucaine Hydrochloride is a local anesthetic of the amide type now generally used for surface anesthesia.

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Target: Sodium Channel

Dibucaine is an amide local anesthetic. Dibucaine reduced the degradation of BSA-gold complex in the reservosomes, which was not caused either by an inhibition of the whole proteolytic activity of the parasite or by a reduction on the expression levels of cruzipain [1].

Dibucaine, a quaternary ammonium compound, inhibited SChE to a minimum within 2 min in a reversible manner. The inhibition was very potent. It had an IC(50) of 5.3 microM with BuTch or 3.8 microM with AcTch. The inhibition was competitive with respect to BuTch with a K(i) of 1.3 microM and a linear-mixed type (competitive/noncompetitive) with respect to AcTch with inhibition constants, K(i) and K(I) of 0.66 and 2.5 microM, respectively. Dibucaine possesses a butoxy side chain that is similar to the butryl group of BuTch and longer by an ethylene group from AcTch [2].