

Dibucaine

Catalog No: tcsc2656



Available Sizes

Size: 5g

Size: 10g



Specifications

CAS No:

85-79-0

Formula:

$C_{20}H_{29}N_3O_2$

Pathway:

Membrane Transporter/Ion Channel

Target:

Sodium Channel

Purity / Grade:

>98%

Solubility:

DMSO : ≥ 36 mg/mL (104.82 mM)

Alternative Names:

Cinchocaine

Observed Molecular Weight:

343.46

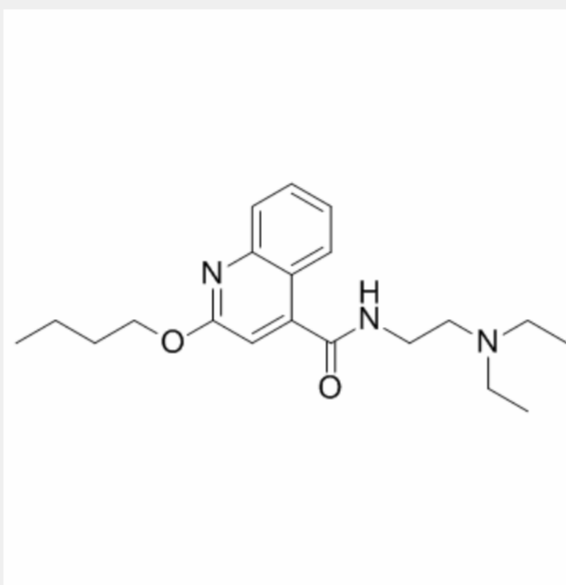
Product Description

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

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(l) 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].



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