

Product Data Sheet

Product Name: Dibucaine hydrochloride

Cat. No.: GC35860

Chemical Properties

Cas. No. 61-12-1

SMILES O=C(C1=CC(OCCCC)=NC2=CC=CC=C12)NCCN(CC)CC.Cl

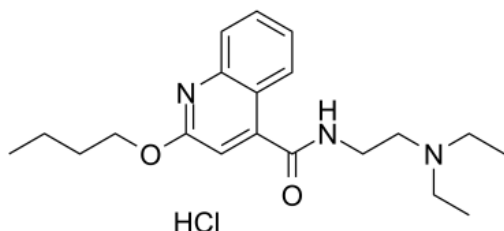
Formula $C_{20}H_{30}ClN_3O_2$ M.Wt 379.92

Solubility Soluble in DMSO Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure



Background

Dibucaine hydrochloride (Cinchocaine hydrochloride) is a local anesthetic of the amide type now generally used for surface anesthesia. Target: Sodium Channel. Dibucaine hydrochloride (Cinchocaine hydrochloride) is an amide local anesthetic. Dibucaine hydrochloride (Cinchocaine hydrochloride) 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 hydrochloride (Cinchocaine hydrochloride), a quaternary ammonium compound, inhibited SChE to a minimum within 2 min in a reversible manner. The inhibition was very

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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 hydrochloride (Cinchocaine hydrochloride) possesses a butoxy side chain that is similar to the butryl group of BuTch and longer by an ethylene group from AcTch [2].

[1]. Souto-Padron, T., A.P. Lima, and O. Ribeiro Rde, Effects of dibucaine on the endocytic/exocytic pathways in Trypanosoma cruzi. Parasitol Res, 2006. 99(4): p. 317-20. [2]. Elamin, B., Dibucaine inhibition of serum cholinesterase. J Biochem Mol Biol, 2003. 36(2): p. 149-53.

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