Product Data Sheet

Product Name: Proparacaine Hydrochloride

CAS No.: 5875-6-9
Cat. No.: HY-66012
MWt: 330.85
Formula: C16H27ClN2O3
Purity: >98%
Solubility: DMSO 12 mg/mL; Water 65 mg/mL

Mechanisms:
Pathways: Membrane Tranporter/Ion Channel; Target: Sodium Channel

Biological Activity:
Proparacaine Hydrochloride is a voltage-gated sodium channels antagonist with ED50 of 3.4 mM. IC50 Value: 3.4 mM(ED50) [1]
Target: Sodium Channel
in vitro: Proparacaine is more potent and less toxic than cocaine [1]. Proparacaine significantly increases in FHV-1 (P < 0.01), C. felis, and 28S rDNA Ct values when fusidic acid is used [2].
in vivo: Proparacaine inhibits corneal epithelial migration and adhesion through alteration of the actin cytoskeleton [3]. Proparacaine acts like bupivacaine or lidocaine and produces dose-related spinal blockades of motor function, proprioception and nociception. Intrathecal proxymetacaine also produces longer sensory blockade than motor blockade [4].

References:

Caution: Not fully tested. For research purposes only

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