

Product Data Sheet

Product Name: N-Acetylprocainamide (Acecainide)

Cat. No.: GC34027

Chemical Properties

Cas. No. 32795-44-1

SMILES O=C(NCCN(CC)CC)C1=CC=C(NC(C)=O)C=C1

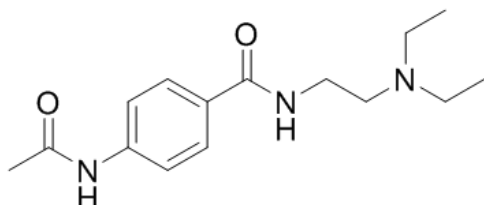
Formula $C_{15}H_{23}N_3O_2$ M.Wt 277.36

Solubility DMSO : ≥ 150 mg/mL (540.81 mM) 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

N-Acetylprocainamide is a class III antiarrhythmic, which blocks K^+ channels.

N-Acetylprocainamide is a K^+ blocker. N-Acetylprocainamide decreases the tensions induced by K^+ and methacholine. The pIC_{50} values for N-acetylprocainamide against the contractions induced by 0.3 and 1 μM methacholine are 2.80 ± 0.03 and 2.65 ± 0.02 , respectively. And such a relaxant effect of N-Acetylprocainamide is inhibited by K^+ channel blockers[1]. N-Acetylprocainamide shows no effect on Na^+ absorption or Cl^- secretion[2].

Caution: Product has not been fully validated for medical applications. For research use only.

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[1]. Nakahara T, et al. Role of K⁺ channels in N-acetylprocainamide-induced relaxation of bovine tracheal smooth muscle. Eur J Pharmacol. 2001 Mar 9;415(1):73-8. [2]. Plass H, et al. Class I antiarrhythmics inhibit Na⁺ absorption and Cl⁻ secretion in rabbit descending colon epithelium. Naunyn Schmiedebergs Arch Pharmacol. 2005 Jun;371(6):492-9.

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