Propoxycaine hydrochloride

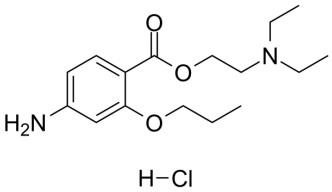
Cat. No.: HY-B1243

CAS No.: 550-83-4

Molecular Formula: $C_{16}H_{27}ClN_2O_3$

Molecular Weight: 330.85

Storage: 4°C, sealed storage, away from moisture
* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro

H_2O : 100 mg/mL (302.25 mM; Need ultrasonic)
DMSO : ≥ 83 mg/mL (250.87 mM)
* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	3.0225 mL	15.1126 mL	30.2252 mL
5 mM	0.6045 mL	3.0225 mL	6.0450 mL
10 mM	0.3023 mL	1.5113 mL	3.0225 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: PBS
   Solubility: ≥ 100 mg/mL (302.25 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 2.08 mg/mL (6.29 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.08 mg/mL (6.29 mM); Clear solution
4. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.08 mg/mL (6.29 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Propoxycaine hydrochloride inhibits voltage-gated sodium channels, and thereby inhibits the ionic flux required for the initiation and conduction of impulses. Propoxycaine hydrochloride application can lead to a loss of sensation.

IC_{50} & Target

IC50: sodium channel

CUSTOMER VALIDATION

- Stem Cell Res Ther. 2021 Feb 4;12(1):107.

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