

# Ropivacaine (hydrochloride monohydrate)

Catalog No: tcsc2672



## Available Sizes

**Size:** 10mg

**Size:** 50mg



## Specifications

**CAS No:**

132112-35-7

**Formula:**

$C_{17}H_{29}ClN_2O_2$

**Pathway:**

Membrane Transporter/Ion Channel

**Target:**

Sodium Channel

**Purity / Grade:**

>98%

**Solubility:**

H<sub>2</sub>O : 14 mg/mL (42.57 mM; Need ultrasonic and warming)

**Observed Molecular Weight:**

328.88

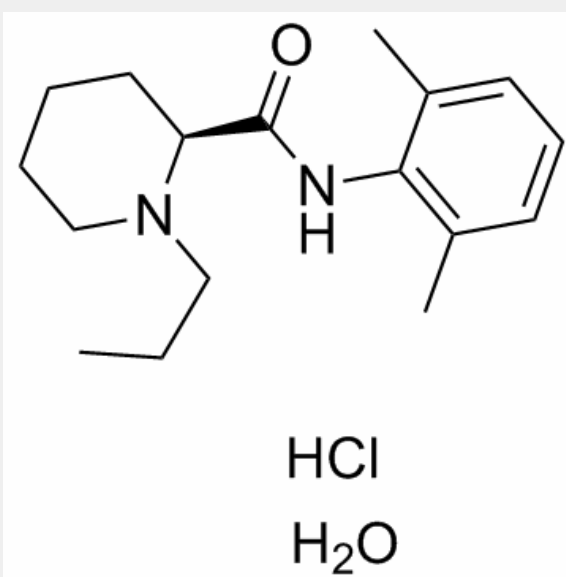
## Product Description

Ropivacaine HCl is an anaesthetic agent and blocks impulse conduction in nerve fibres through inhibiting sodium ion influx reversibly.

Target: Sodium Channel

Ropivacaine is a new long-acting local anesthetic, with vasoconstrictive properties. Ropivacaine given epidurally provided adequate sensory anesthesia and motor block for transurethral surgery. Addition of epinephrine did not provide any significant prolongation of

the sensory or motor block, nor any influence upon the sympathetic block [1]. Ropivacaine was metabolized to 2',6'-pipecoloxylidide (PPX), 3'-hydroxyropivacaine (3'-OH Rop), and 4'-hydroxyropivacaine (4'-OH Rop) by hepatic microsomes from human and rat. Ropivacaine N-dealkylation and 3'-hydroxylation activities correlated well with the level of CYP3A4 and 1A2 in human hepatic microsomes, respectively [2].



All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!