

Lidocaine

Catalog No: tcsc2070

Available Sizes

Size: 5g

Size: 10g

Specifications

CAS No:

137-58-6

Formula:

 $\mathrm{C}_{14}\mathrm{H}_{22}\mathrm{N}_{2}\mathrm{O}$

Pathway: Membrane Transporter/Ion Channel

Target:

Sodium Channel

Purity / Grade:

>98%

Alternative Names:

Lignocaine

Observed Molecular Weight:

234.34

Product Description

Lidocaine, an amide local anesthetic, has anti-inflammatory properties in vitro and in vivo, possibly due to an attenuation of proinflammatory cytokines, intracellular adhesion molecule-1 (ICAM-1), and reduction of neutrophils influx.

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Target:

Lidocaine is a common local anesthetic and antiarrhythmic drug. Lidocaine is used topically to relieve itching, burning and pain from skin inflammations, injected as a dental anesthetic or as a local anesthetic for minor surgery. Lidocaine, the first amino amide-type local anesthetic, was first synthesized under the name xylocaine by Swedish chemist Nils Lofgren in 1943. His colleague Bengt Lundqvist performed the first injection anesthesia experiments on himself.

Lidocaine is approximately 95% metabolized (dealkylated) in the liver by CYP3A4 to the pharmacologically-active metabolites monoethylglycinexylidide (MEGX) and then subsequently to the inactive glycine xylidide. MEGX has a longer half life than lidocaine but also is a less potent sodium channel blocker. The elimination half-life of lidocaine is approximately 90–120 minutes in most patients. This may be prolonged in patients with hepatic impairment (average 343 minutes) or congestive heart failure (average 136 minutes).



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