**BACKGROUND**

Lidocaine is a common amino amide-type local anesthetic as well as a Class Ib antiarrhythmic agent. Lidocaine has a longer duration and a more rapid onset of action than amino ester-type local anesthetics. It functions by blocking fast sodium channels in the cell membrane, thereby effectively altering depolarization in neurons. With enough Lidocaine, the membrane will not transmit an action potential, leading to its anesthetic effects. When Lidocaine blocks a cardiac action potential, it decreases automaticity by reducing the slope of phase 0 of depolarization with little effect on the PR interval, QRS complex or QT interval. Systemic exposure to large amounts of Lidocaine may result in negative central nervous system and cardiovascular effects. CYP1A2, a liver enzyme, metabolizes about 90 percent of Lidocaine into the pharmacologically-active metabolites monoethylglycinexylidide and glycinexylidide. Lidocaine has a molecular weight of 234.34 g/mol and a half life of 1.5 to 2 hours.

**REFERENCES**


**SOURCE**

Lidocaine (601) is a mouse monoclonal antibody raised against Lidocaine.

**PRODUCT**

Each vial contains 200 µg IgG1 in 1.0 mL PBS with < 0.1% sodium azide and 0.1% gelatin.

**APPLICATIONS**

Lidocaine (601) is recommended for detection of Lidocaine by solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

**STORAGE**

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

**RESEARCH USE**

For research use only, not for use in diagnostic procedures.

**PROTOCOLS**

See our web site at www.scbt.com or our catalog for detailed protocols and support products.