



# Amitriptyline (201): sc-66026

## BACKGROUND

Amitriptyline hydrochloride is a white, odorless, crystalline, tricyclic compound that is freely soluble in water. It has a molecular weight of 277.403 g/mol and is metabolized by the oxidation of the side chain resulting in production of the secondary amine nortriptyline and N-oxide amitriptylinoxide. Amitriptyline affects serotonin and noradrenaline reuptake, and it is dispensed as an antidepressant drug in tablet form for the treatment of endogenous depression, involuntal melancholia, reactive depression and for depression secondary to alcoholism and schizophrenia. Amitriptyline may also be used to treat nocturnal enuresis. Overdose of Amitriptyline may lead to irreversible neural impairment associated with its detergent nature, as well as potent cardiotoxicity.

## REFERENCES

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9. Kitagawa, N., Oda, M., Nobutaka, I., Satoh, H., Totoki, T. and Morimoto, M. 2006. A proposed mechanism for Amitriptyline neurotoxicity based on its detergent nature. *Toxicol. Appl. Pharmacol.* 217: 100-106.

## SOURCE

Amitriptyline (201) is a mouse monoclonal antibody raised against Amitriptyline.

## PRODUCT

Each vial contains 100 µg IgG<sub>1</sub> in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

## APPLICATIONS

Amitriptyline (201) is recommended for detection of Amitriptyline 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](http://www.scbt.com) for detailed protocols and support products.