



Gentamicin (1.BB.894): sc-57740

BACKGROUND

Gentamicin is an aminoglycoside antibiotic obtained from *Micromonospora purpurea* and related species. It is used to treat many types of bacterial infections, particularly Gram-negative bacteria. Gentamicin functions by binding to the bacterial 30S ribosomal subunit, thereby inhibiting the translocation of the peptidyl-tRNA from the A-site to the P-site and also causing the genetic code to be misread. This causes the cell to be unable to synthesize proteins that are vital to its growth. If taken orally, Gentamicin is absorbed in the small intestine before it reaches the portal vein to the liver and becomes inactivated, so this drug must be given intravenously, intramuscularly or topically. With a molecular weight of 477.596 g/mol, Gentamicin is one of the few heat-stable antibiotics. Because it remains active even after autoclaving, Gentamicin is useful in preparing certain microbiological growth media.

REFERENCES

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SOURCE

Gentamicin (1.BB.894) is a mouse monoclonal antibody raised against Gentamicin.

RESEARCH USE

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

PRODUCT

Each vial contains 100 µg IgG_{2a} in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

Gentamicin (1.BB.894) is recommended for detection of Gentamicin 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.

PROTOCOLS

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