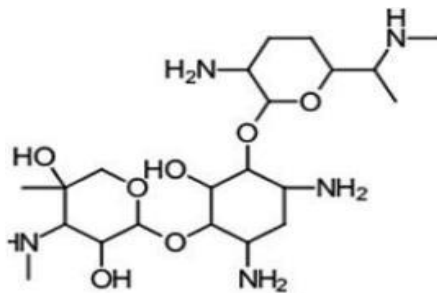


Gentamicin Sulfate

Molecular structure



Product Description

Gentamicin, also known as gentiomyacin C, is an aminoglycoside, which is naturally produced by Gram-negative bacteria. This antibiotic functions by preventing protein synthesis. Gentamicin sulfate prevents the growth of both Gram positive and Gram negative bacteria, *in vivo* and *in vitro*. In tissue culture, gentamicin sulfate is used to inhibit the growth of various strains of mycoplasma.

Product Specification

Mode of Action:	Gentamicin causes codon misreading by binding to the 30S ribosomal subunit, blocking the translocation of peptidyl-tRNA from the acceptor site to the donor site. The bactericidal effect of gentamicin on <i>Pseudomonas aeruginosa</i> is exerted by the binding of gentamicin to the outer membrane, where it displaces natural cations, destabilizes the membrane, and forms holes in the cell surface.
Conferred Resistance:	high-level aminoglycoside <i>resistance</i> in gram-negative bacteria
Molecular weight:	575.64
Formula:	$C_{21}H_{43}N_5O_7 \cdot H_2SO_4$
Appearance:	Liquid: yellow liquid Powder: off white powder
Working Concentration:	Powder: 50 µg/mL Liquid: 1 mL/Litre
Solubility:	Powder: H ₂ O

Storage and Stability: Liquid: 15°C to 30°C
 Powder: 2°C to 8°C
 Protect from light

Ordering information

Cat. No.	Description	Unit Size	Qty/Pk
30-005 CR	Gentamicin Sulfate liquid 50 mg/mL solution	10 x 10 mL	1
61-098 RA	Gentamicin Sulphate Powder	0.1 g	1
61-098-RF	Gentamicin Sulphate Powder	1 g	1

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Support

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