

Apramycin Sulfate PRODUCT DATA SHEET

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Product Name: Apramycin Sulfate

Product Number: A014

CAS Number: 65710-07-8

Molecular Formula: $C_{21}H_{41}N_5O_{11} \cdot H_2SO_4$

Molecular Weight: 637.66
Form: Powder

Appearance: Light yellow powder

Source: Streptomyces tenebraius

Storage Conditions: 2-8°C

Description: Apramycin sulfate is an aminoglycoside antibiotic which binds the deep

groove of RNA and effectively inhibits ribosomal translocation prohibiting

protein synthesis. It is sparingly soluble in water (25 mg/mL).

Mechanism of Action: Apramycin sulfate binds to the deep groove of RNA and effectively inhibits

ribosomal translocation prohibiting protein synthesis.

Spectrum: Gram negative bacteria such as E. coli and Salmonella spp. demonstrate

susceptibility to apramycin sulfate.

Microbiology Applications Apramycin sulfate is commonly used in clinical in vitro microbiological

antimicrobial susceptibility tests (panels, discs, and MIC strips) against gram negative microbial isolates. Medical microbiologists use AST results to recommend antibiotic treatment options for infected patients. Representative

MIC values include:

• Escherichia coli 1 μg/mL — >512 μg/mL

Klebsiella pneumoniae 2 μg/mL — >256 μg/mL

• For a complete list of apramycin MIC values, click here.

References: Davis, Bernard D. "Mechanism of Bactericidal Action of

Aminoglycosides. "Microbiological Reviews 51.3 (1987): 341-50.

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