

Kanamycin sulfate

Product Information

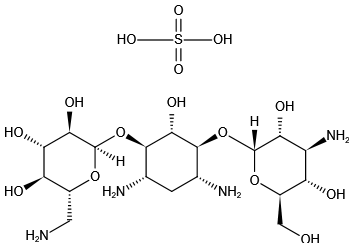
Product Name	Cat#	Size
Kanamycin sulfate	60206ES10	10 g
	60206ES60	100 g

Product Description

Kanamycin sulfate is an aminoglycoside bacteriocidal antibiotic and is effective against gram-negative and gram-positive bacteria, and mycoplasma. Kanamycin sulfate inhibits translocation and elicits miscoding by binding to 70S ribosomal subunit. Kanamycin sulfate can be used as a selection agent for bacteria transformed with kanamycin B resistance gene and transformants with carrying neomycin phosphotransferase (NptII/neo) gene.

This product is a USP grade reagent with a solubility of about 100 mg/mL in water. It is recommended for use at 30-100 µg/mL.

Product Properties

Synonyms	Kanamycin sulfate, Kanamycin A
CAS#	25389-94-0
Formula	$C_{18}H_{36}N_4O_{11} \cdot H_2O_4S$
Molecular Weight	582.58
Appearance	White powder
Potency (dry basis)	≥ 750 µg/mg
Grade	USP
Solubility	Soluble in water: ≥ 100 mg/mL, insoluble in DMSO, chloroform and acetone
Structure	

Shipping and Storage

The product is shipped with ice pack and can be stored at 2-8°C for 2 years. Solutions are stable at 37°C for approximately 5 days. Aqueous stock solutions can be stored at -20°C for long term storage.

Cautions

1. After kanamycin is added to agar medium, the container needs to be sealed to avoid kanamycin degradation and activity reduction causing by water loss. It can be kept at 4 °C for up to 1 month.
2. For your safety and health, please wear lab coats and disposable gloves for operation.
3. For research use only.