

## Kanamycins sulfate

<b>Cat. No.:</b>	HY-W040128
<b>CAS No.:</b>	70560-51-9
<b>Molecular Formula:</b>	$C_{18}H_{38}N_4O_{15}S$
<b>Molecular Weight:</b>	582.58
<b>Target:</b>	Antibiotic; Bacterial
<b>Pathway:</b>	Anti-infection
<b>Storage:</b>	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)

# Kanamycins (sulfate)

### SOLVENT & SOLUBILITY

#### In Vitro

H<sub>2</sub>O : 62.5 mg/mL (107.28 mM; Need ultrasonic)

Solvent	Mass	Concentration		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	1.7165 mL	8.5825 mL	17.1650 mL
	5 mM	0.3433 mL	1.7165 mL	3.4330 mL
	10 mM	0.1717 mL	0.8583 mL	1.7165 mL

Please refer to the solubility information to select the appropriate solvent.

### BIOLOGICAL ACTIVITY

#### Description

Kanamycins sulfate is a broad-spectrum antibiotic, can be used in certain severe staphylococcal or Gram-negative bacillary infections. Kanamycin sulfate has certain ototoxicity<sup>[1][2]</sup>.

### REFERENCES

- [1]. Luo Q, et al. Carbon dots derived from kanamycin sulfate with antibacterial activity and selectivity for Cr<sup>6+</sup> detection. *Analyst*. 2021 Mar 21;146(6):1965-1972.
- [2]. YOW MD, et al. The ototoxic effects of kanamycin sulfate in infants and children. *J Pediatr*. 1962 Feb;60:230-42.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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