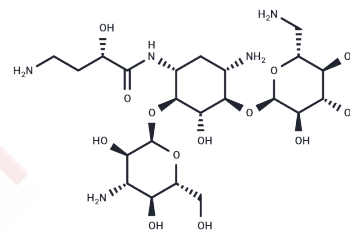


## Amikacin

## Chemical Properties

CAS No. :	37517-28-5
Formula:	C <sub>22</sub> H <sub>43</sub> N <sub>5</sub> O <sub>13</sub>
Molecular Weight:	585.6
Appearance:	no data available
Storage:	store under nitrogen
	Powder: -20°C for 3 years   In solvent: -80°C for 1 year



## Biological Description

Description	Amikacin (Amikacina) is a broad-spectrum antibiotic derived from kanamycin.
Targets(IC50)	ribosome

## Solubility Information

Solubility	H <sub>2</sub> O: 50 mg/mL (85.38 mM), Sonication is recommended. DMSO: 45 mg/mL (76.84 mM), Sonication is recommended. ( $< 1$ mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.7077 mL	8.5383 mL	17.0765 mL
5 mM	0.3415 mL	1.7077 mL	3.4153 mL
10 mM	0.1708 mL	0.8538 mL	1.7077 mL
50 mM	0.0342 mL	0.1708 mL	0.3415 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

## Reference

Tolmasky ME. Front Biosci. 2000 Jan 1;5:D20-9.

Ma X, Li H, Ji J, et al. Overexpression of outer membrane protein A (OmpA) increases aminoglycoside sensitivity in mycobacteria. BMC microbiology. 2024, 24(1): 472.

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