

## Product Data Sheet

Product Name: Amikacin (hydrate)

Cat. No.: GC38195

### Chemical Properties

Cas. No. 1257517-67-1

SMILES O[C@@H]1[C@H]([C@@H](C[C@H](N)[C@H]1O[C@@]([C@@H]([C@@H](O)[C@@H]2O)O)([H])O[C@@H]2CN)NC([C@@H](O)CCN)=O)O[C@@]([C@@H]([C@@H](N)[C@@H]3O)O)([H])O[C@@H]3CO.[x].O

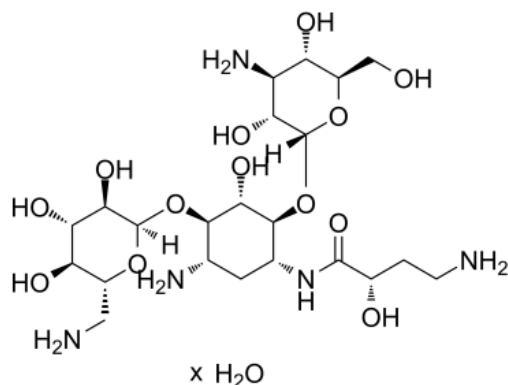
Formula  $C_{22}H_{43}N_5O_{13} \cdot xH_2O$  M.Wt

Solubility Water: 100 mg/mL (Need ultrasonic and warming); DMSO: < 1 mg/mL (insoluble or slightly soluble) Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice All other available size: ship with RT, or blue ice upon request.

### Structure



### Background

Amikacin hydrate (BAY 41-6551 hydrate), a semisynthetic analog of kanamycin, is very active against most gram-negative bacteria including gentamicin- and tobramycin-resistant strains.

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

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Amikacin hydrate (BAY 41-6551 hydrate) is ototoxic and nephrotoxic[1][2].

[1]. Edson, R.S. and C.L. Terrell, The aminoglycosides. Mayo Clin Proc, 1999. 74(5): p. 519-28. [2]. Ristuccia AM, et al. An overview of amikacin. Ther Drug Monit. 1985;7(1):12-25.

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