

Product Data Sheet

Product Name: Micronomicin (sulfate)

Cat. No.: GC45514

Chemical Properties

Cas. No. 66803-19-8

SMILES [H][C@@]1(OC[C@@](O)(C)[C@H](NC)[C@H]1O)O[C@H]([C@H]2O)[C@H](N)C[C@H](N)[C@H]2O[C@@]3([H])O[C@H](CNC)CC[C@H]3N.O=S(O)(O)=O

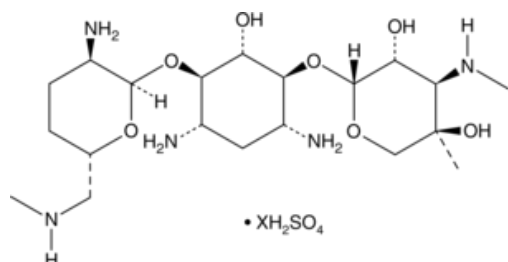
Formula C₂₀H₄₁N₅O₇.XH₂SO₄ M.Wt 463.6

Solubility DMF: ,DMSO: ,Ethanol: Partially Storage Store at -20°C
soluble,PBS (pH 7.2): 2 mg/ml

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

Micronomicin is an aminoglycoside antibiotic originally isolated from Micromonospora.^{1,2} It is active against *S. aureus*, *B. subtilis*, *B. cereus*, *E. coli*, and *K. pneumoniae* (MICs = 0.001-8.3 µg/ml) and inactive against *C. albicans* and *A. niger* (MICs = >10 µg/ml).¹

References

1. Okachi, R., Kawamoto, I., Takasawa, S., et al. A new antibiotic XK-62-2 (Sagamicin). I. Isolation, physicochemical and antibacterial properties. J. Antibiot. (Tokyo) 27(10), 793-800 (1974).
2. Egan, R.S., DeVault, R.L., Mueller, S.L., et al. A new antibiotic XK-62-2. III The structure of XK-62-2, a new gentamicin C complex antibiotic. J. Antibiot. (Tokyo) 28(1), 29-34 (1975).

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

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