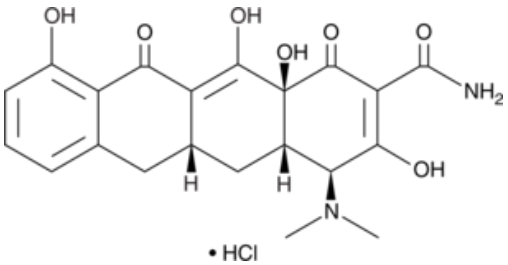
Product Data Sheet

Product Name: Sancycline (hydrochloride)
Cat. No.: GC45559

Chemical Properties

Cas. No.	6625-20-3		
SMILES	O=C1C(C(N)=O)=C(O)[C@@H](N(C)C)[C@]2([H])C[C@](C3=C(O)[C@@]21O)([H])CC4=CC=CC(O)=C4C3=O.Cl		
Formula	C21H22N2O7.HCl	M.Wt	450.9
Solubility	DMF: 20mg/mL,DMSO: 20mg/mL,DMSO:PBS (pH 7.2) (1:5): 0.15 mg/mL,Ethanol: 5mg/mL	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

Sancycline is a semi-synthetic tetracycline antibiotic that is more active than tetracycline against 339 strains of anaerobic bacteria (average MIC90s = 1 and 32 µg/ml, respectively).1,2 Sancycline is active against tetracycline-resistant E. coli, S. aureus, and E. faecalis strains with MICs ranging from 0.06 to 1 µg/ml.3 In vivo, sancycline is active against S. aureus in mice with ED50 values of 0.46 and 0.6 mg/kg for intravenous and subcutaneous administration, respectively.

References

1. McCormick, J.R.D., Jensen, E.R., Miller, P.A., et al. The 6-deoxytetracyclines. Further studies on the relationship between structure and antibacterial activity in the tetracycline series. J. Am. Chem.

Caution: Product has not been fully validated for medical applications. For research use only.
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Soc. 82(13), 3381-3386 (1960).
2. Wexler, H.M., Molitoris, E., and Finegold, S.M. In vitro activities of two new glycylcyclines, N,N-dimethylglycylamido derivatives of minocycline and 6-demethyl-6-deoxytetracycline, against 339 strains of anaerobic bacteria. Antimicrob. Agents Chemother. 38(10), 2513-2515 (1994).
3. Testa, R.T., Perterson, P.J., Jacobus, N.V., et al. In vitro and in vivo antibacterial activities of the glycylcyclines, a new class of semisynthetic tetracyclines. Antimicrob. Agents Chemother. 37(11), 2270-2277 (1993).

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