

## Product Data Sheet

Product Name: Teicoplanin A2-5

Cat. No.: GC10269

### Chemical Properties

Cas. No. 91032-38-1

Chemical Name 34-O-[2-(acetylamino)-2-deoxy-β-D-glucopyranosyl]-22,31-dichloro-7-demethyl-64-O-demethyl-19-deoxy-56-O-[2-deoxy-2-[(9-methyl-1-oxodecyl)amino]-β-D-glucopyranosyl]-42-O-α-D-mannopyranosyl-ristomycin A aglycone

SMILES CC(CCCCCC/C(O)=N/[C@]([C@@](OC1=C2C=C([C@](/N=C(O)\[C@](/N=C(O)/[C@@](/N=C(O)\[C@@](N)([H])C3=CC4=C(O)C=C3)([H])CC5=CC(Cl)=C(O2)C=C5)([H])C6=CC(O)=CC(O4)=C6)([H])/C(O)=N/[C@](/C(O)=N/7)([H])C8=CC(C9=C([C@@]%10([H])C(O)=O)C=C(O)C=C9O[C@]%11([H])[C@](O)([H

Formula C<sub>89</sub>H<sub>99</sub>Cl<sub>2</sub>N<sub>9</sub>O<sub>33</sub> M.Wt 1893.7

Solubility Soluble in ethanol;Soluble in methanol;Soluble in DMSO;Soluble in dimethyl formamide

Store  
Storage 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

Teicoplanin A2-5, derived from Actinoplanes teichomyceticus, is a glycopeptide antibiotic which produces a broad spectrum of antibiotic activity against gram-positive bacteria.

Teicoplanin A2-5 is the most non-polar metabolite in the family of teicoplanins.

Teicoplanin, previously referred to in the literature as teichomycin, is a mixture of five

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closely related components of similar polarity, designated T-A2-1, 2, 3, 4 and 5 and of one more polar component, designated T-A3. Additionally, as a glycopeptide antibiotic belonging to the same family as vancomycin, teicoplanin blocks cell wall synthesis in *Bacillus subtilis*, which is accompanied by an intracellular accumulation of UDP-N-acetylmuramyl-pentapeptide [1]. Due to the greater antibacterial activity of teicoplanin than other agents, it has been thoroughly studied as a  $\beta$ -lactamase-resistant agent for the treatment of human infections caused by streptococci and staphylococci, including enterococci [2].

In vitro: Up to now, in vitro study of Teicoplanin A2-5 is still in the development stage.

In vivo: Up to now, in vivo study of Teicoplanin A2-5 is still in the development stage.

### References:

[1]. Somma, S., Gastaldo, L., & Corti, A. Teicoplanin, a new antibiotic from *Actinoplanes teichomyceticus* nov. sp. *Antimicrobial Agents and Chemotherapy*. 1984; 26(6): 917-923.

[2]. Traina, G., & Bonati, M. Pharmacokinetics of teicoplanin in man after intravenous administration. *Journal of Pharmacokinetics and Biopharmaceutics*. 1984;12(2): 119-128.

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