


Specification

Vancomycin hydrochloride *BioChemica*

A1839

Physical Description:	Solid
Product Code:	A1839
Product Name:	Vancomycin hydrochloride <i>BioChemica</i>
Specifications:	<p>Vancomycin B (HPLC): min. 93 %</p> <p>Activity: min. 1050 I.U./mg</p> <p>pH (5 %; H₂O): 2.5 - 4.5</p> <p>Heavy metals: max. 0.003 %</p> <p>Water: max. 5 %</p>
Hazard pictograms	
WGK:	2
Storage:	2 - 8°C
Signal Word:	Attention
GHS Symbols:	GHS07
H Phrases:	H317
P Phrases:	<p>P280</p> <p>P302+P352</p> <p>P333+P313</p>
Molecular Formula:	C ₆₆ H ₇₅ Cl ₂ N ₉ O ₂₄ · HCl
M:	1485.73 g/mol
CAS:	1404-93-9
CS:	29419000

AppliChem GmbH

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Comment

Vancomycin is a glycopeptide antibiotic produced by *Streptomyces orientalis*. It binds to bacterial cell wall precursors generally ending at the C-terminus with -L-Lys-D-Ala-D-Ala (1) and interferes with the peptidoglycan synthesis. The antibiotic is bacteriostatic and at higher concentrations bactericidal in particular instances against gram-positive bacteria. Gram-negative bacteria, except for some strains of *Neisseria*, are resistant. Vancomycin hydrochloride is soluble in water (>100 mg/ml) or DMSO (approx. 110 mg/ml). Aqueous solutions are stable for approx. 90 days at +4°C.

Bibliography

(1) Perkins, H.R. (1982) *Pharmac. Ther.* **16**, 181-197 Vancomycin and related antibiotics. (2) Williamson, M.P. & Williams, D.H. (1984) *Eur. J. Biochem.* **138**, 345-348 Hydrophobic interactions affect hydrogen bond strengths in complexes between peptides and vancomycin or ristocetin.

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