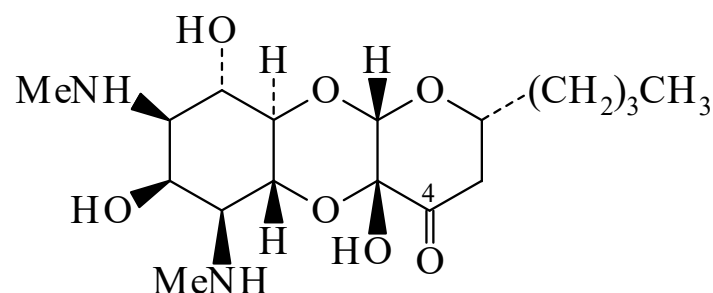




>>Entry Name: Trospectomycin, BAN, INN

Synonym(s): 2-Butyldecahydro-4*a*,7,9-trihydroxy-6,8-bis(methylamino)-4*H*-pyrano[2,3-*b*][1,4]benzodioxin-4-one, 9Cl. TSP



CAS Registry Number: 88669-04-9

Related CAS Registry Numbers(s): 85951-37-7 97673-66-0

Molecular Formula: C₁₇H₃₀N₂O₇

Molecular Weight: 374.433

Accurate Mass: 374.205303

Percentage Composition: C 54.53%; H 8.08%; N 7.48%; O 29.91%

Use/Importance: Antibiotic. Active against penicillin-sensitive and resistant strains of *Neisseria gonorrhoeae*

Development Status: Phase I clinical trial (1990)

Calculated Log P Data: Log P -2.02 (calc)

Other Data: Undergoes 4-keto<>>4-gem diol tautomerism in presence of moisture

>>Derivative: Sulfate

Synonym(s): Trospectomycin sulfate, USAN. Spexil. U 63-366F

CAS Registry Number: 88851-61-0

Physical Description: Solid + 5H₂O

Optical Rotation: [α]_D +20 (c, 0.9 in H₂O)

Hazard & Toxicity: Exp. hepatic effects (30 d study)

References:

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Cisneros, R.L. *et al.*, *Curr. Ther. Res.*, 1988, **43**, 456, (*pharmacol*)
Zurenko, G.E. *et al.*, *Drugs Exp. Clin. Res.*, 1988, **14**, 403, (*pharmacokinet, human*)
White, D.R. *et al.*, *Tet. Lett.*, 1989, **30**, 1469, (*synth, cmr*)
Novak, E. *et al.*, *Antimicrob. Agents Chemother.*, 1990, **34**, 2342, (*pharmacol, human*)
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Nichols, D.J. *et al.*, *Br. J. Clin. Pharmacol.*, 1991, **32**, 255, (*pharmacokinet*)
Martindale, *The Extra Pharmacopoeia*, 30th edn., Pharmaceutical Press, 1993, 220
Likar, M.D. *et al.*, *Pharm. Res.*, 1993, **10**, 75, (*tautom*)