



>>Entry Name: **Leptomycin B**

Synonym(s): Elactocin. ATS 1287B. CI 940. CL 1957A. PD 114720. Antibiotic ATS 1287B. Antibiotic CI 940. Antibiotic CL 1957A. Antibiotic PD 114720. Mantuamycin

CAS Registry Number: 87081-35-4

Related CAS Registry Numbers(s): 94730-69-5

As Leptomycin A, [CKC68-V](#) with
R = CH₂CH₃

Molecular Formula: C₃₃H₄₈O₆

Molecular Weight: 540.739

Accurate Mass: 540.34509

Percentage Composition: C 73.30%; H 8.95%; O 17.75%

Biological Source: Prod. by *Streptomyces* sp. ATS 1287, *Streptomyces aburaviensis* and *Elactomyces cylindrospora*

Use/Importance: Active against fungi and yeasts. Antineoplastic. Antitumour agent

Physical Description: Sticky yellow oil

Optical Rotation: [α]_D -24.5 (c, 0.7 in MeOH)

UV: [neutral] $\lambda_{\max}$ 235 (ϵ 35000); 292 (ϵ 1500) (MeOH) (Derep)

Other Data: Related to Kazusamycin [GQM91-D](#)

References:

- Hamamoto, T. *et al.*, *J. Antibiot.*, 1983, **36**, 636; 646, (*isol, struct*)
Schaumberg, J.P. *et al.*, *Chem. Comm.*, 1984, 1450, (*isol*)
Komiyama, K. *et al.*, *J. Antibiot.*, 1985, **38**, 220; 224; 427, (*struct, props*)
Tunac, J.B. *et al.*, *J. Antibiot.*, 1985, **38**, 460, (*isol, struct, props*)
Roberts, B.J. *et al.*, *Cancer Chemother. Pharmacol.*, 1986, **16**, 95, (*props*)
Hurley, T.R. *et al.*, *J. Antibiot.*, 1986, **39**, 1651
U.S. Pat., 1988, 4 792 522; *CA*, **110**, 191264, (*isol*)
Kobayashi, M. *et al.*, *Tet. Lett.*, 1998, **39**, 8291-8294, (*synth, abs config*)