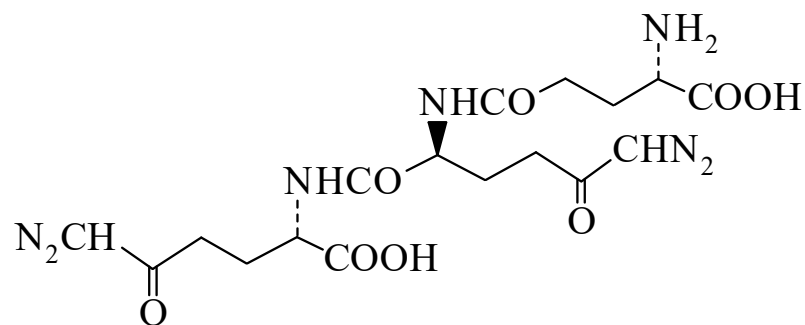




>>Entry Name: Azotomycin, INN, USAN

Synonym(s): 6-Diazo-*N*-(6-diazo-*N*-L-γ-glutamyl-5-oxo-L-norleucyl)-5-oxo-L-norleucine, 9Cl, 8Cl. Diazamycin B. Duazomycin B. BA 8509B. NSC 56654. Antibiotic 1719. Antibiotic BA 8509B



CAS Registry Number: 7644-67-9

Molecular Formula: C₁₇H₂₃N₇O₈

Molecular Weight: 453.411

Accurate Mass: 453.160813

Percentage Composition: C 45.03%; H 5.11%; N 21.62%; O 28.23%

General Statement: Oligopeptide antibiotic

Biological Source: Isol. from *Actinomyces cinereoviridis* and *Streptomyces ambofaciens*

Use/Importance: Shows antineoplastic activity

Solubility: BERDY SOL: Sol. H₂O; fairly sol. MeOH; poorly sol. butanol, hexane

UV: [neutral] λ_{max} 245 (sh) (ε 5330); 275 (ε 10700) (MeOH) (Derep) [neutral] λ_{max} 245 (E1%/1cm 340); 275 (E1%/1cm 550) (pH 7 buffer) (Berdy) [neutral] λ_{max} 245 (ε 14850); 275 (ε 25790) (H₂O) (Berdy)

Other Data: Related to Alazopeptin [CKS50-M](#)

Hazard & Toxicity: LD_{Lo} (mus, orl) 105 mg/kg. LD_{Lo} (mus, ipr) 27 mg/kg

References:

Rao, K.V., *Antimicrob. Agents Chemother.*, 1962, 179

Konstantinova, N.V. *et al.*, *Antibiotiki (Moscow)*, 1972, **17**, 680, (*isol*)

Korobkova, T.P. *et al.*, *Antibiotiki (Moscow)*, 1972, **17**, 684, (*manuf*)

Sava, G. *et al.*, *Cancer Treat. Rep.*, 1982, **66**, 179, (*activity*)

Nelson, P.S., *Diss. Abstr. Int., B*, 1983, **44**, 499, (*synth*)

Pettit, G.R. *et al.*, *J.O.C.*, 1986, **51**, 1282, (*synth*)

Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th edn., Van Nostrand Reinhold, 1992, ASO501