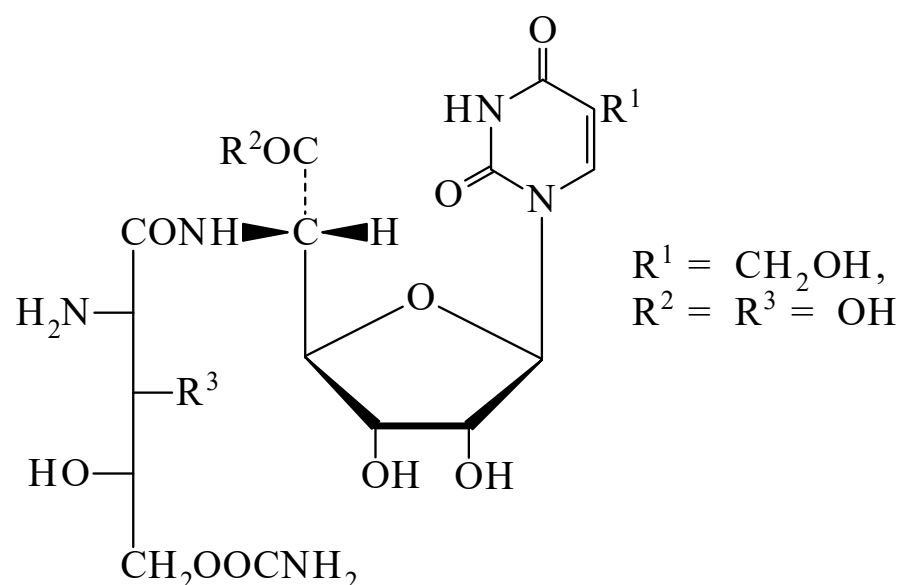




>>Entry Name: Polyoxin B

Synonym(s): Piomycin. Polyoxin AL



CAS Registry Number: 19396-06-6

Molecular Formula: $\text{C}_{17}\text{H}_{25}\text{N}_5\text{O}_{13}$

Molecular Weight: 507.41

Accurate Mass: 507.14489

Percentage Composition: C 40.24%; H 4.97%; N 13.80%; O 40.99%

Biological Source: Isol. from *Streptomyces cacaoi* var. *asoensis*

Use/Importance: Antifungal antibiotic

Optical Rotation: $[\alpha]_{\text{D}}^{20} +34$ (c, 1.03 in H_2O)

pKa Value: $\text{p}K_{\text{a}1}$ 3; $\text{p}K_{\text{a}2}$ 6.9; $\text{p}K_{\text{a}3}$ 9.4

Hazard & Toxicity: LD_{50} (rat, orl) approx. 15000 mg/kg. LD_{50} (mus, ivn) 200 mg/kg

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