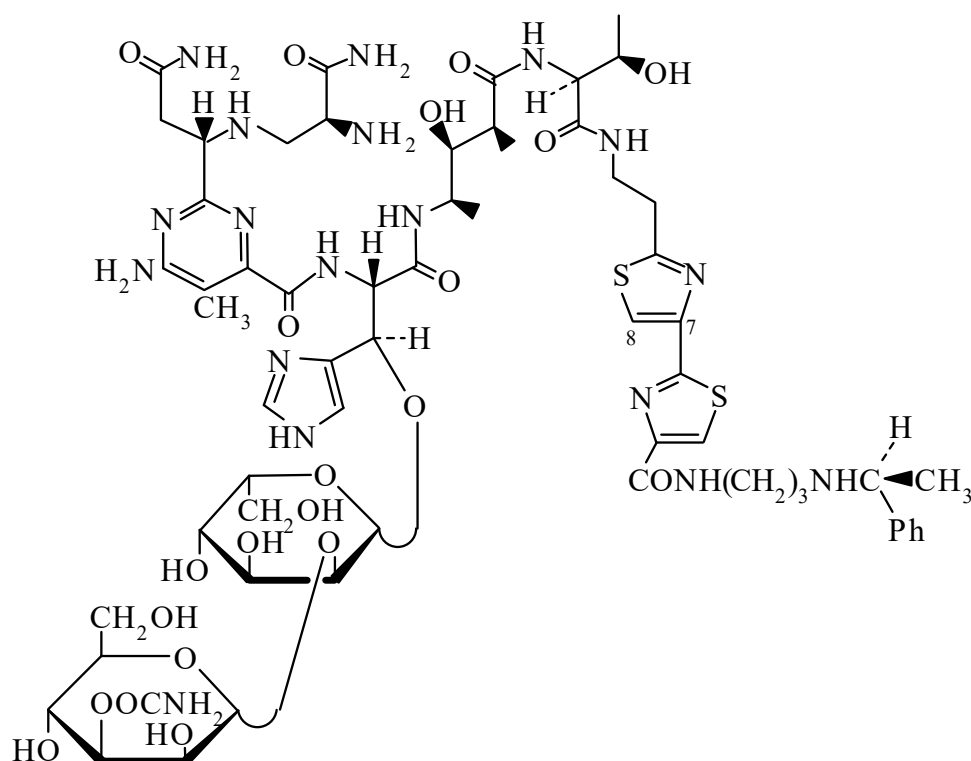




>>Entry Name: Pepleomycin

Synonym(s): *N'*-[3-[(1-Phenylethyl)amino]propyl]bleomycinamide. Bleomycin NK 631. 3-(1-Phenylethylamino)propylaminobleomycin. **Peplomycin**, INN. Pepleocine. Peplocin. NK 631



CAS Registry Number: 68247-85-8

Molecular Formula: C₆₁H₈₈N₁₈O₂₁S₂

Molecular Weight: 1473.606

Accurate Mass: 1472.581287

Percentage Composition: C 49.72%; H 6.02%; N 17.11%; O 22.80%; S 4.35%

Source/Synthesis: Semisynthetic

Use/Importance: Antineoplastic antibiotic

Calculated Log P Data: Log P -10.3 (uncertain value) (calc)

Hazard & Toxicity: LD₅₀ (rat, ivn) 215 mg/kg. Mutagenic props.

>>Derivative: Sulfate

Synonym(s): Peplomycin sulfate, JAN, USAN

CAS Registry Number: 70384-29-1

>>Derivative: 7,8-Dihydro

Synonym(s): Phleomycin PEP. 7,8-Dihydropepleomycin

CAS Registry Number: 79736-64-4

Molecular Formula: C₆₁H₉₀N₁₈O₂₁S₂

Molecular Weight: 1475.622

Accurate Mass: 1474.596937

Percentage Composition: C 49.65%; H 6.15%; N 17.09%; O 22.77%; S 4.35%

References:

- Tanaka, W., *Jpn. J. Antibiot.*, (Suppl.), 1977, **30**, 41, (*synth, props*)
Ger. Pat., 1979, *Nippon Kayako*, 2 828 933; *CA*, **91**, 74902w, (*synth*)
Tanaka, W. *et al.*, *Heterocycles*, (Spec. Issue), 1979, **13**, 469, (*synth*)
Oka, S., *Drugs Exp. Clin. Res.*, 1984, **10**, 533, (*rev, pharmacol, tox*)
Naganawa, H. *et al.*, *J. Antibiot.*, 1989, **42**, 633, (*cmr*)
Martindale, The Extra Pharmacopoeia, 30th edn., Pharmaceutical Press, 1993, 496
Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th edn., Van Nostrand Reinhold, 1992, BLY770; PCB000