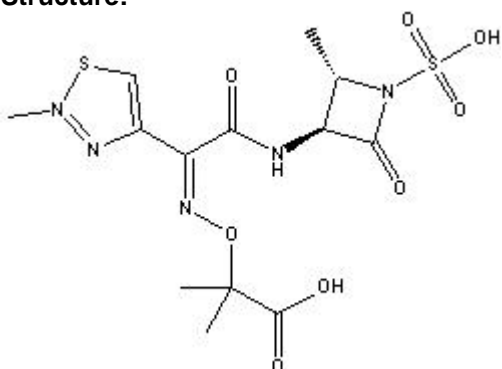


TECHNICAL INFORMATION

Catalog Number: 150415

Aztreonam

Structure:



Molecular Formula: C₁₃H₁₇N₅O₈S₂

Molecular Weight: 435.4

CAS # 78110-38-0

Synonyms: Azthreonam; Azactam; [2S-[2a, 3b(Z)]]-2-[[[1-(2-Amino-4-thiazolyl)-2-[(2-methyl-4-oxo-1-sulfo-3-azetidinyloxy)-2-oxoethylidene]amino]oxy]-2-methylpropanoic acid

Physical Description: White crystalline powder

Solubility: Soluble in DMF and DMSO; slightly soluble in ethanol and methanol; practically insoluble in toluene, chloroform and ethyl acetate.

Description: The first totally synthetic monocyclic b-lactam antibiotic that displays a high degree of resistance to b-lactamase degradation.¹ High specificity for gram-negative aerobic rods.¹

References:

- *Merck Index, 12th Ed.*, No. 955.
- Sykes, R.B., et al., *Antimicrob. Ag. Chemother.*, v. **21**, 85 (1982).
- Donadio, C., et al., *Drugs Exp. Clin. Res.*, v. **13**, 167 (1987).
- Boucher, B.A., "Role of aztreonam in the treatment of nosocomial pneumonia in the critically ill surgical patient." *Am. J. Surg.*, v. **179**, 45 (2000).