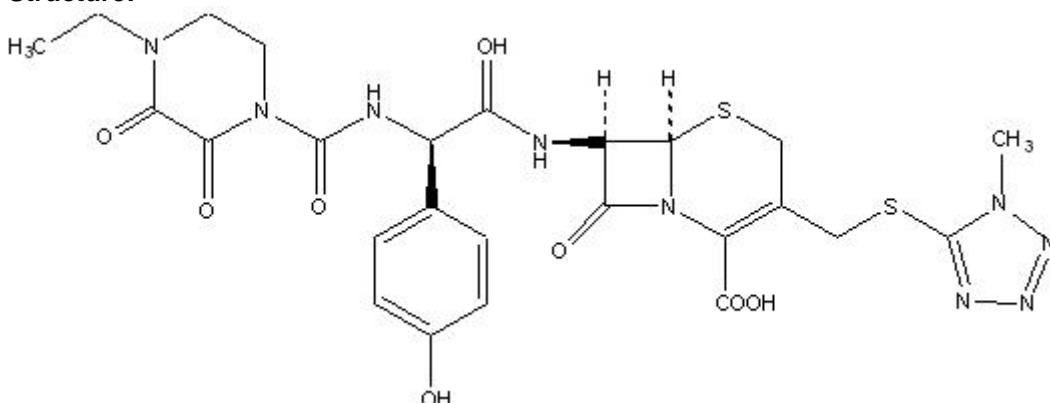


## TECHNICAL INFORMATION

Catalog Number: 199695

**Cefoperazone Sodium Salt, USP Grade**

**Structure:**



**Molecular Formula:** C<sub>25</sub>H<sub>26</sub>N<sub>9</sub>NaO<sub>8</sub>S<sub>2</sub>

**Molecular Weight:** 667.65

**CAS #** 62893-20-3

**Synonyms:** Cefobid; Cefoperazone sodium; CPZ; T-1551; [6R-[6.alpha.,7.beta.(R\*)]]-7- [[[(4-Ethyl-2,3- dioxo-1-piperazinyl) carbonyl]amino] (4-hydroxyphenyl) acetyl] amino]-3- [[(1-methyl-1H-tetrazol-5-yl) thio] methyl]- 8-oxo-5- thia-1-azabicyclo[4.2.0] oct-2-ene-2- carboxylic acid; 7-[D-(-)-alpha- (4-ethyl-2,3-dioxo- 1-piperazinecarboxamido)- alpha-(4-hydroxyphenyl) acetamido]- 3-[[ (1-methyl-1H- tetrazol-5-yl) thio] methyl]-3-cephem-4- carboxylic acid

**Solubility:** Soluble in water (50 mg/ml - clear, faint yellow solution). Note: may need heating to help solubilization. Solutions are stable at pH 4.0-7.0, slightly unstable in acid, and highly unstable in alkaline solutions.<sup>1</sup>

**Description:** A broad spectrum third generation cephalosporin antibiotic.<sup>1</sup> Has similar antimicrobial activity to ceftazidime. It is active against *Pseudomonas aeruginosa* and it has enhanced activity against *Enterobacteriaceae* and *Bacteroides* sp. in the presence of the beta-lactamase inhibitor sulbactam. Compared to cefotaxime, cefoperazone has greater susceptibility to hydrolysis by some beta-lactamases.<sup>1,2</sup>

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