

Product Data Sheet

Product Name: Cefalothin (sodium salt)

Cat. No.: GC43221

Chemical Properties

Cas. No. 58-71-9

SMILES O=C(CC1=CC=CS1)N[C@H](C2=O)[C@]3([H])N2C(C([O-])=O)=C(COC(C)=O)CS3.[Na+]

Formula C₁₆H₁₅N₂O₆S₂•Na

M.Wt 418.4

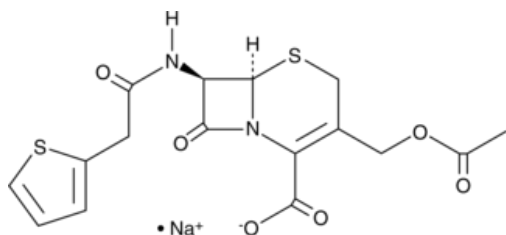
Solubility PBS (pH 7.2): 10 mg/ml

Storage Store at -20°C

General For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the tips ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Evaluation sample solution : ship with blue ice All other available size: ship with RT, or Condition blue ice upon request.

Structure



Background

Cefalothin is a β -lactam cephalosporin antibiotic. It inhibits the growth of various Gram-positive and Gram-negative bacteria, including several strains of *S. pyogenes*, *S. aureus*, *C. tetani*, *N. gonorrhoeae*, *Salmonella*, and *Shigella* (MICs = 0.1-0.2, 0.312-0.625, 0.078, 1.25, 1.56-6.25, and 3.12-12.5 μ g/ml, respectively). Cefalothin binds to *E. coli* penicillin-binding proteins (PBPs; IC₅₀s = *S. pyogenes*, *D. pneumoniae*, and *S. aureus*. Formulations containing cefalothin were previously used in the prophylaxis and treatment of bacterial infections.

Caution: Product has not been fully validated for medical applications. For research use only.

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