
Product Data Sheet

Product Name: Cefradine (Cephradine)

Cat. No.: GC32181

Chemical Properties

Cas. No. 38821-53-3

SMILES O=C(C(N12)=C(C)CS[C@]2([H])[C@H](NC([C@H](N)C3=CCC=CC3)=O)C1=O)OFormula C₁₆H₁₉N₃O₄S

M.Wt 349.4

Solubility DMSO : ≥ 3.6 mg/mL (10.30 mM)

Storage Store at -20°C

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

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

Structure

Background

Cefradine is an orally bioavailable β-lactam cephalosporin antibiotic.¹ It is active against *S. pyogenes*, *E. coli*, *K. pneumoniae*, and *E. cloacae* (MICs = 0.04, 9.4, 9.4, and 6.3 μg/ml, respectively). Cefradine is also active against clinical isolates of *S. aureus* (MICs = 0.8-6 μg/ml) and *S. pyogenes* (MICs = 0.1-0.4 μg/ml), as well as *H. influenzae*, *E. coli*, and *K. pneumoniae* (MICs = 6.2-12.5 μg/ml).² It increases survival in mouse models of systemic lethal infection by *S. pyogenes*, *E. coli*, *K. pneumoniae*, or *E. cloacae* (ED₅₀s = 5, 37, 122, and 50 mg/kg, respectively), as well as by penicillin-susceptible or -resistant strains of *S. aureus* (ED₅₀s = 18 and 91 mg/kg, respectively).¹ Formulations containing cefradine have previously been used in the treatment of respiratory and urinary tract infections, skin infections, and otitis media.

1.Miraglia, G.J., Renz, K.J., and Gadebusch, H.H.Comparison of the chemotherapeutic and pharmacodynamic activities of cephradine, cephalothin, and cephaloridine in miceAntimicrob. Agents Chemother.3(2)270-273(1973) 2.Shibl, A.M., and Durgham, S.M.In-vitro evaluation of a new oral cephalosporin, cefroxadine (CGP 9000)).

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

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Chemother.2(1)8-10(1990)

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