PRODUCT INFORMATION



Cefradine

Item No. 26060

CAS Registry No.:		
Formal Name:	(6R,7R)-7-[[(2R)-2-amino-2-(1,4-	
	cyclohexadien-1-yl)acetyl]amino]-3- methyl-8-oxo-5-thia-1-azabicyclo[4.2.0]	$\mathbb{V}_{2}^{H_{2}} + \mathbb{H}_{2}$
	oct-2-ene-2-carboxylic acid	N S
Synonym:	SQ 11,436	
MF:	C ₁₆ H ₁₉ N ₃ O ₄ S	
FW:	349.4	× i i
Purity:	≥90%	
UV/Vis.:	λ _{max} : 263 nm	ОУОН
Supplied as:	A crystalline solid	
Storage:	-20°C	
Stability:	≥4 years	
Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.		

Description

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* ($ED_{50}s = 5$, 37, 122, and 50 mg/kg, respectively), as well as by penicillin-susceptible or -resistant strains of *S. aureus* ($ED_{50}s = 18$ 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.

References

- 1. Miraglia, G.J., Renz, K.J., and Gadebusch, H.H. Comparison of the chemotherapeutic and pharmacodynamic activities of cephradine, cephalothin, and cephaloridine in mice. Antimicrob. 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). J. Chemother. 2(1), 8-10 (1990).

WARNING THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFFTY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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