

Product Data Sheet

Product Name: Cefmetazole

Cat. No.: GC47068

Chemical Properties

Cas. No. 56796-20-4

SMILES O=C(O)C1=C(CSC2=NN=NN2C)CS[C@@]([C@]3(OC)NC(CSCC#N)=O)([H])N1C3=O

Formula C₁₅H₁₇N₇O₅S₃

M.Wt 471.5

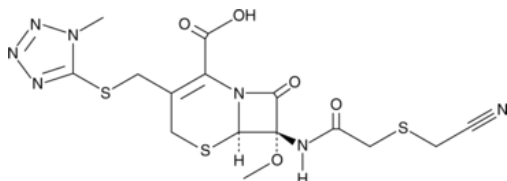
Solubility DMF: 20mg/mL, DMSO:
20mg/mL, DMSO:PBS (pH 7.2) (1:4):
0.2mg/mL

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

Cefmetazole is a cephamycin antibiotic.¹ It is active against *E. coli*, *P. mirabilis*, *H. influenzae*, *N. gonorrhoeae*, *S. pneumoniae*, and *S. pyogenes* (MIC₅₀s = 0.25-2 µg/ml). Cefmetazole (20 and 40 mg/kg per day) decreases the lesion size and the number of ulcerative lesions in a rabbit model of active syphilis.²

1. Jones, R.N., Barry, A.L., Fuchs, P.C., et al. Antimicrobial activity of cefmetazole (CS-1170) and recommendations of susceptibility testing by disk diffusion, dilution, and anaerobic methods. *J. Clin. Microbiol.* 24(6):1055-1059 (1986)
2. Baker-Zander, S.A., and Lukehart, S.A. Efficacy of cefmetazole in the treatment of active syphilis in the rabbit model. *Antimicrob. Agents Chemother.* 33(9):1465-1469 (1989)

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA