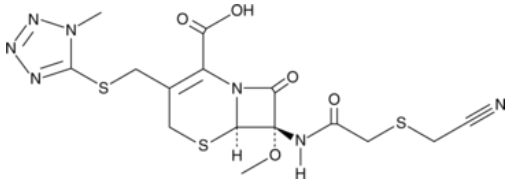
Product Data Sheet

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* (MIC_{50}s = 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 methodsJ. 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 modelAntimicrob. 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