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Produktinformation



Forschungsprodukte & Biochemikalien



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Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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PRODUCT INFORMATION



Cephacetrile

Item No. 36269

CAS Registry No.: 10206-21-0
Formal Name: (6R,7R)-3-[(acetyloxy)methyl]-7-[(2-cyanoacetyl)amino]-8-oxo-5-thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid

Synonyms: Cefacetrile,
7-Cyanoacetamidocephalosporanic Acid

MF: C₁₃H₁₃N₃O₆S

FW: 339.3

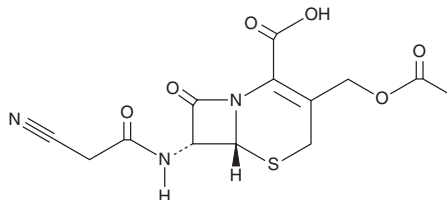
Purity: ≥95%

Supplied as: A solid

Storage: -20°C

Stability: ≥4 years

Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.



Laboratory Procedures

Cephacetrile is supplied as a solid. A stock solution may be made by dissolving the cephacetrile in the solvent of choice, which should be purged with an inert gas. Cephacetrile is slightly soluble in methanol, DMSO, and dimethyl formamide.

Description

Cephacetrile is a cephalosporin antibiotic.¹ It is active against numerous Gram-positive and Gram-negative bacteria, including clinical isolates of *S. aureus*, *S. epidermidis*, *S. pyogenes*, *E. coli*, and *Klebsiella* (MICs = 0.64, 0.64, 0.16, 6.25 and 3.12 µg/ml, respectively). Cephacetrile (30 µg/disc) is also active against veterinary isolates of *S. aureus* from bovine mastitis.² Formulations containing cephacetrile have been used in the treatment of bovine mastitis.

References

1. Neu, H.C. and Winshell, E.B. *In vitro* evaluation of cephacetrile, a new cephalosporin antibiotic. *J. Antibiot. (Tokyo)* **25(7)**, 400-404 (1972).
2. Costa, E.O., Benites, N.R., Guerra, J.L., *et al.* Antimicrobial susceptibility of *Staphylococcus* spp. isolated from mammary parenchymas of slaughtered dairy cows. *J. Vet. Med. B Infect. Dis. Vet. Public Health* **47(2)**, 99-103 (2000).

WARNING

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

SAFETY 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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