PRODUCT INFORMATION



Cefonicid (sodium salt)

Item No. 18745

CAS Registry No.: 61270-78-8

Formal Name: (6R,7R)-7-[[(2R)-2-hydroxy-2-

> phenylacetyllaminol-8-oxo-3-[[[1-(sulfomethyl)-1H-tetrazol-5-yl]thio]methyl]-5-thia-1azabicyclo[4.2.0]oct-2-ene-2carboxylic acid, disodium salt

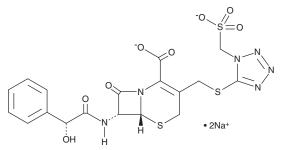
Synonym: Monocid

MF: $C_{18}H_{16}N_6O_8S_3 \bullet 2Na$

586.5 FW: **Purity:** ≥98% UV/Vis.: λ_{max} : 269 nm A crystalline solid Supplied as:

-20°C Storage: Stability: ≥4 years

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



Laboratory Procedures

Cefonicid (sodium salt) is supplied as a crystalline solid. A stock solution may be made by dissolving the cefonicid (sodium salt) in the solvent of choice, which should be purged with an inert gas. Cefonicid (sodium salt) is soluble in organic solvents such as DMSO and dimethyl formamide. The solubility of cefonicid (sodium salt) in these solvents is approximately 5 and 2 mg/ml, respectively.

Further dilutions of the stock solution into aqueous buffers or isotonic saline should be made prior to performing biological experiments. Ensure that the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. Organic solvent-free aqueous solutions of cefonicid (sodium salt) can be prepared by directly dissolving the crystalline solid in aqueous buffers. The solubility of cefonicid (sodium salt) in PBS, pH 7.2, is approximately 10 mg/ml. We do not recommend storing the aqueous solution for more than one day.

Description

Cefonicid is a second-generation cephalosporin antibiotic. Like other cephalosporins, cefonicid interferes with cell wall biosynthesis in bacteria, leading to lysis of the infectious organism. It is a broad-spectrum antibiotic and has a prolonged serum elimination half-life in animals.¹

Reference

1. Kalman, D. and Barriere, S.L. Review of the pharmacology, pharmacokinetics, and clinical use of cephalosporins. Texas Heart Institute Journal 17(3), 203-215 (1990).

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

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.

WARRANTY AND LIMITATION OF REMEDY

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