PRODUCT INFORMATION



Cefquinome (sulfate)

Item No. 34266

CAS Registry No.: 118443-89-3

Formal Name: 1-[[(6R,7R)-7-[[(2Z)-2-(2-amino-4-thiazolyl)-

2-(methoxyimino)acetyl]amino]-2-carboxy-8-oxo-5-thia-1-azabicyclo[4.2.0]oct-2-en-3-

yl]methyl]-5,6,7,8-tetrahydro-guinolinium, monosulfate

Synonym: HR 111V sulfate

MF: C₂₃H₂₅N₆O₅S₂ • HSO₄

FW: 626.7 **Purity:** UV/Vis.: λ_{max} : 267 nm A solid Supplied as: -20°C Storage: Stability: ≥4 years

• HSO₄-

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

Laboratory Procedures

Cefquinome (sulfate) is supplied as a solid. A stock solution may be made by dissolving the cefquinome (sulfate) in the solvent of choice, which should be purged with an inert gas. Cefquinome (sulfate) is soluble in organic solvents such as DMSO and dimethyl formamide. The solubility of cefquinome (sulfate) in these solvents is approximately 30 and 10 mg/ml, respectively.

Cefquinome (sulfate) is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, cefquinome (sulfate) should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. Cefquinome (sulfate) has a solubility of approximately 0.2 mg/ml in a 1:4 solution of DMSO:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

Cefquinome is a broad-spectrum cephalosporin antibiotic.¹ It is active against clinical isolates of various Gram-positive and Gram-negative bacteria, including Salmonella, E. coli, and methicillin-resistant S. aureus (MRSA; MICs = 0.06-0.5, 0.015-0.5, and 1-16 μg/ml, respectively). Intramammary administration of cefquinome (75 mg/animal) is curative in a bovine model of E. coli-induced mastitis.² Formulations containing cefquinome have been used in the treatment of coliform mastitis in veterinary medicine.

References

- 1. Chin, N.-X., Gu, J.-W., Fang, W., et al. In vitro activity of cefquinome, a new cephalosporin, compared with other cephalosporin antibiotics. Diagn. Microbiol. Infect. Dis. 15(4), 331-337 (1992).
- 2. Shpigel, N.Y., Levin, D., Winkler, M., et al. Efficacy of cefquinome for treatment of cows with mastitis experimentally induced using Escherichia coli. J. Dairy Sci. 80(2), 318-323 (1996).

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.

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CAYMAN CHEMICAL

1180 EAST ELLSWORTH RD ANN ARBOR, MI 48108 · USA PHONE: [800] 364-9897

[734] 971-3335

FAX: [734] 971-3640 CUSTSERV@CAYMANCHEM.COM WWW.**CAYMANCHEM**.COM