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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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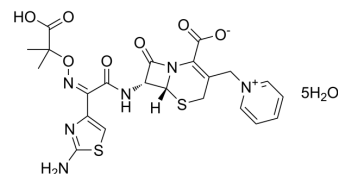
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Ceftazidime pentahydrate (Standard)

Cat. No.:	HY-B0593AR
CAS No.:	78439-06-2
Molecular Formula:	C ₂₂ H ₃₂ N ₆ O ₁₂ S ₂
Molecular Weight:	636.65
Target:	Bacterial; Beta-lactamase; Antibiotic
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

Ceftazidime (pentahydrate) (Standard) is the analytical standard of Ceftazidime (pentahydrate). This product is intended for research and analytical applications. Ceftazidime (GR20263) pentahydrate, an antibiotic, has a broad spectrum activity against Gram-positive and Gram-negative aerobic bacteria. Ceftazidime pentahydrate is also active against Enterobacteriaceae (including β -lactamase-positive strains) and is resistant to hydrolysis by most β -lactamases^[1].

REFERENCES

- [1]. Richards DM, et al. Ceftazidime. A review of its antibacterial activity, pharmacokinetic properties and therapeutic use. *Drugs*. 1985 Feb;29(2):105-61.
- [2]. Esmat Kamali, et al. In vitro activities of cellulase and ceftazidime, alone and in combination against *Pseudomonas aeruginosa* biofilms. *BMC Microbiol*. 2021 Dec 16;21(1):347.
- [3]. Qiuxia Lin, et al. Avibactam potentiated the activity of both ceftazidime and aztreonam against *S. maltophilia* clinical isolates in vitro. *BMC Microbiol*. 2021 Feb 22;21(1):60.
- [4]. Shawn H MacVane, et al. Unexpected in vivo activity of ceftazidime alone and in combination with avibactam against New Delhi metallo- β -lactamase-producing Enterobacteriaceae in a murine thigh infection model. *Antimicrob Agents Chemother*. 2014 Nov;58(11):7007-9.

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

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