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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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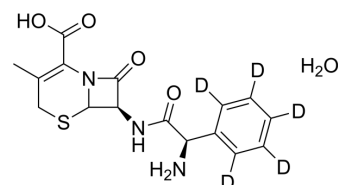
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Cephalexin-d₅ hydrate

Cat. No.:	HY-W653936
Molecular Formula:	C ₁₆ H ₁₄ D ₅ N ₃ O ₅ S
Molecular Weight:	370.43
Target:	Isotope-Labeled Compounds; Bacterial; Antibiotic; Penicillin-binding protein (PBP)
Pathway:	Others; Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

Cephalexin-d₅ (hydrate) is deuterium labeled Cephalexin (monohydrate). Cephalexin (Cefalexin) monohydrate is a potent, orally active new semisynthetic cephalosporin antibiotic with a broad antibacterial spectrum. Cephalexin (Cefalexin) monohydrate has antibacterial activity against a wide variety of gram-positive and gram-negative bacteria. Cephalexin (Cefalexin) monohydrate targets penicillin-binding proteins (PBPs) to inhibit bacterial cell wall assembly. Cephalexin (Cefalexin) monohydrate is used for the research of pneumonia, strep throat, and bacterial endocarditis, et al^{[1][2][3]}.

REFERENCES

- [1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother*. 2019 Feb;53(2):211-216.
- [2]. Cho H, et, al. Beta-lactam antibiotics induce a lethal malfunctioning of the bacterial cell wall synthesis machinery. *Cell*. 2014 Dec 4;159(6):1300-11.
- [3]. Buck RE, et, al. Cefadroxil, a new broad-spectrum cephalosporin. *Antimicrob Agents Chemother*. 1977 Feb;11(2):324-30.

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

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