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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

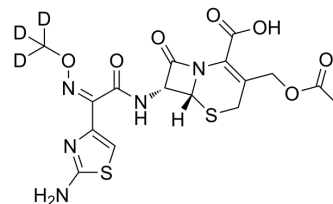
mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

Cefotaxime-d₃

Cat. No.:	HY-W654101		
Molecular Formula:	C ₁₆ H ₁₄ D ₃ N ₅ O ₇ S ₂		
Molecular Weight:	458.48		
Target:	Isotope-Labeled Compounds; Antibiotic; Bacterial		
Pathway:	Others; Anti-infection		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 250 mg/mL (545.28 mM; Need ultrasonic and warming)

	Solvent Concentration	Mass	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM		2.1811 mL	10.9056 mL	21.8112 mL
	5 mM		0.4362 mL	2.1811 mL	4.3622 mL
	10 mM		0.2181 mL	1.0906 mL	2.1811 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

Cefotaxime-d₃ is the deuterium labeled Cefotaxime (HY-A0088A). Cefotaxime is the β -lactamase stable cephalosporin and the third-generation cephalosporin antibiotic. Cefotaxime possesses broad-spectrum antibiotic activity against numerous Gram-positive and Gram-negative bacteria^{[1][2][3][4][5]}.

REFERENCES

- [1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother*. 2019;53(2):211-216.
- [2]. Woodfield JC, et al. A comparison of the prophylactic efficacy of ceftriaxone and cefotaxime in abdominal surgery. *Am J Surg*. 2003 Jan;185(1):45-9.
- [3]. Scholz H, et al. Prospective comparison of ceftriaxone and cefotaxime for the short-term treatment of bacterial meningitis in children. *Chemotherapy*. 1998 Mar-Apr;44(2):142-7.
- [4]. E L Francke, et al. Use of cefotaxime, a beta-lactamase stable cephalosporin, in the therapy of serious infections, including those due to multiresistant organisms. *Am J Med*. 1981 Sep;71(3):435-42.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA