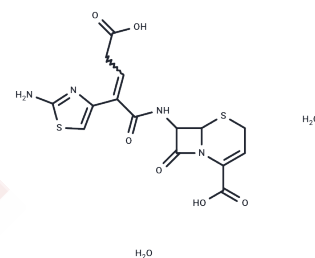


Ceftibuten dihydrate

Chemical Properties

CAS No. :	118081-34-8
Formula:	C ₁₅ H ₁₈ N ₄ O ₈ S ₂
Molecular Weight:	446.46
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	Ceftibuten dihydrate (Sch-39720 dihydrate) is the dihydrate form of ceftibuten, and is a third-generation cephalosporin with antibacterial activity.
Targets(IC50)	Antibacterial, Antibiotic

Solubility Information

Solubility	DMSO: 250 mg/mL (559.96 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (4.48 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.2398 mL	11.1992 mL	22.3984 mL
5 mM	0.448 mL	2.2398 mL	4.4797 mL
10 mM	0.224 mL	1.1199 mL	2.2398 mL
50 mM	0.0448 mL	0.224 mL	0.448 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

JONES, RONALD N. Ceftibuten: a review of antimicrobial activity, spectrum and other microbiologic features.[J]. Pediatric Infectious Disease Journal, 1995, 14(14):S77-83.

Wise R, et al. Ceftibuten--in-vitro activity against respiratory pathogens, beta-lactamase stability and mechanism of action. J Antimicrob Chemother, 1990. 26(2): p. 209-213.

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