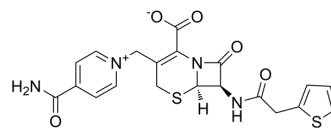


Cefalonium

Cat. No.:	HY-B1252
CAS No.:	5575-21-3
Molecular Formula:	C ₂₀ H ₁₈ N ₄ O ₅ S ₂
Molecular Weight:	458.51
Target:	Antibiotic; Bacterial
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



SOLVENT & SOLUBILITY

In Vitro

DMSO : 125 mg/mL (272.62 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.1810 mL	10.9049 mL	21.8098 mL
	5 mM	0.4362 mL	2.1810 mL	4.3620 mL
	10 mM	0.2181 mL	1.0905 mL	2.1810 mL

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

BIOLOGICAL ACTIVITY

Description

Cefalonium is the first-generation β -lactam cephalosporin antibiotic that is widely used to research bovine mastitis caused by Gram-positive bacteria including staphylococci^{[1][2][3]}.

IC₅₀ & Target

β -lactam

REFERENCES

- [1]. Harada K, et, al. Assessment of the Usefulness of Cefapirin and Cefalonium Disks for Susceptibility Testing of Staphylococcus aureus Isolates from Bovine Mastitis. *Antibiotics (Basel)*. 2020 Apr 21;9(4):197.
- [2]. Demon D, et, al. The intramammary efficacy of first generation cephalosporins against Staphylococcus aureus mastitis in mice. *Vet Microbiol*. 2012 Nov 9;160(1-2):141-50.
- [3]. Berry EA, et, al. Effect of an intramammary teat seal and dry cow antibiotic in relation to dry period length on postpartum mastitis. *J Dairy Sci*. 2007 Feb;90(2):760-5.

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

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