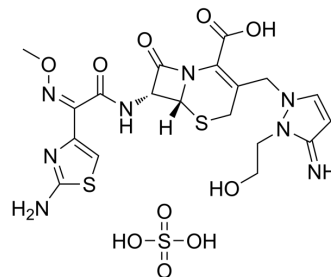


Cefoselis sulfate

Cat. No.:	HY-B0186B
CAS No.:	122841-12-7
Molecular Formula:	C ₁₉ H ₂₄ N ₈ O ₁₀ S ₃
Molecular Weight:	620.64
Target:	Bacterial; Antibiotic
Pathway:	Anti-infection
Storage:	4°C, protect from light, stored under nitrogen * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light, stored under nitrogen)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (161.12 mM; Need ultrasonic)
H₂O : 14.29 mg/mL (23.02 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	1.6112 mL	8.0562 mL	16.1124 mL
	5 mM	0.3222 mL	1.6112 mL	3.2225 mL
	10 mM	0.1611 mL	0.8056 mL	1.6112 mL

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

In Vivo

- Add each solvent one by one: PBS
Solubility: 25 mg/mL (40.28 mM); Clear solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 2.5 mg/mL (4.03 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.5 mg/mL (4.03 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.5 mg/mL (4.03 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Cefoselis sulfate (FK-037), the fourth generation of cephalosporin, is a β-lactam antibiotic. Cefoselis sulfate exhibits good activity against a wide range of Gram-positive and Gram-negative organisms. Cefoselis sulfate penetrates the blood-brain barrier^{[1][2][3]}.

IC₅₀ & Target

β-lactam

In Vitro

The activity of Cefoselis (sulfate) was similar to that of cefpirome and cefepime and generally superior to that of ceftazidime. Cefoselis sulfate showed potent antibacterial activity against *Hemophilus influenzae* and *Moraxella catarrhalis*. Cefoselis sulfate was highly active against MSSA and MSCNS. Cefoselis sulfate was poor in the activity against MRSA, MRCNS, PRSP and *Enterococcus faecalis*, and no activity for *Enterococcus faecium*.

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. ZHU, D., et al., In vitro activities of cefoselis compared to β -lactams and other antibacterial agents against gram-positive and gram-negative clinical isolates. *Chinese Journal of Infection and Chemotherapy*, 2011. 4: p. 002.
- [2]. King, A., L. Bethune, and I. Phillips, The Comparative In Vitro Activity of FK-037 (Cefoselis), a New Broad-Spectrum Cephalosporin. *Clin Microbiol Infect*, 1995. 1(1): p. 13-17.
- [3]. K Ohtaki, et al. Cefoselis, a beta-lactam antibiotic, easily penetrates the blood-brain barrier and causes seizure independently by glutamate release. *J Neural Transm (Vienna)*. 2004 Dec;111(12):1523-35.

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

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