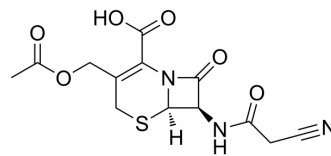


Cefacetrile

Cat. No.:	HY-A0253		
CAS No.:	10206-21-0		
Molecular Formula:	C ₁₃ H ₁₃ N ₃ O ₆ S		
Molecular Weight:	339.32		
Target:	Bacterial; Antibiotic		
Pathway:	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 : 100 mg/mL (294.71 mM; Need ultrasonic)

Solvent	Mass	Concentration		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.9471 mL	14.7354 mL	29.4707 mL
	5 mM	0.5894 mL	2.9471 mL	5.8941 mL
	10 mM	0.2947 mL	1.4735 mL	2.9471 mL

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

BIOLOGICAL ACTIVITY

Description	Cefacetrile (Cephacetrile) is a broad-spectrum antibiotic that is effective in gram-positive and gram-negative bacterial infection ^{[1][2]} .
IC ₅₀ & Target	β-lactam
In Vitro	Cefacetrile (less than 1 μg/mL) inhibits Staphylococcus aureus and Streptococcus pyogenes ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	Cefacetrile (50, 100 and 500 mg/kg, s.c.) does not alter fertility, gestation and post-natal development of term foetuses of rats and fertility and gestation of rabbits ^[3] . Cefacetrile (1 g/kg, i.v.) produces no nephrotoxicity in rabbits and rats ^[4] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

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- [1]. M G Bals, et al. Cephacetrile, a new cephalosporin: in vitro, pharmacological and clinical evaluation. *Infection*. 1975;3(3):161-4.
- [2]. Neu H C, et al. In vitro evaluation of cephacetrile, a new cephalosporin antibiotic. *The Journal of antibiotics*, 1972, 25(7): 400-404.
- [3]. G Esposti, et al. Effects of cephacetrile on reproduction cycle. *Arzneimittelforschung*. 1986 Mar;36(3):484-6.
- [4]. D K Luscombe, et al. Possible interaction between cephacetrile and frusemide in rabbits and rats. *J Antimicrob Chemother*. 1975 Mar;1(1):67-77.
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Caution: Product has not been fully validated for medical applications. For research use only.

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