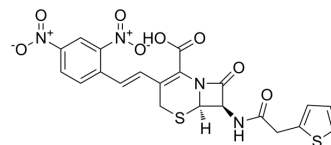


Nitrocefin

Cat. No.:	HY-108913		
CAS No.:	41906-86-9		
Molecular Formula:	C ₂₁ H ₁₆ N ₄ O ₈ S ₂		
Molecular Weight:	516.5		
Target:	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 (193.61 mM; Need ultrasonic)

Concentration	Mass			
	1 mg	5 mg	10 mg	
1 mM	1.9361 mL	9.6805 mL	19.3611 mL	
5 mM	0.3872 mL	1.9361 mL	3.8722 mL	
10 mM	0.1936 mL	0.9681 mL	1.9361 mL	

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

BIOLOGICAL ACTIVITY

Description

Nitrocefin is a chromogenic β -lactamase substrate that undergoes distinctive color change from yellow to red as the amide bond in the β -lactam ring is hydrolyzed by β -lactamase. Nitrocefin is used in competitive inhibition studies in developmental work on β -lactamase-resistant antibiotics^[1].

IC₅₀ & Target

β -lactam

REFERENCES

[1]. Shannon K, Phillips I. beta-Lactamase detection by three simple methods: Intralactam, nitrocefin and acidimetric. J Antimicrob Chemother. 1980 Sep;6(5):617-21.

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