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Produktinformation



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See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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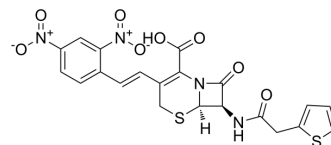
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Nitrocefín

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; Beta-lactamase
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)

	Solvent Concentration	Mass	1 mg	5 mg	10 mg
Preparing Stock Solutions	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

Nitrocefín is a chromogenic β -lactamase substrate that undergoes a distinctive color change from yellow to red as the amide bond in the β -lactam ring is hydrolyzed by β -lactamase. Nitrocefín is used in competitive inhibition studies in developmental work on β -lactamase-resistant antibiotics^{[1][2][3]}.

IC₅₀ & Target

β -lactam

REFERENCES

- [1]. Lee M, et al. A practical synthesis of nitrocefín. J Org Chem. 2005 Jan 7;70(1):367-9.
- [2]. Worthington RJ, et al. Overcoming resistance to β -lactam antibiotics. J Org Chem. 2013 May 3;78(9):4207-13.
- [3]. O'Callaghan CH, et al. Novel method for detection of beta-lactamases by using a chromogenic cephalosporin substrate. Antimicrob Agents Chemother. 1972 Apr;1(4):283-8.

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

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