

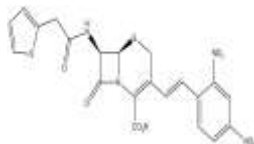
PRODUCT: Nitrocefin

ALTERNATE NAME: (6R,7R)-3-[2-(2,4-dinitrophenyl)ethenyl]-8-oxo-7-[(2-thiophen-2-ylacetyl)amino]-5-thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid

CATALOG #: 2388-5, 10, 25, 100, 500, 1000

AMOUNT: 5 mg, 10 mg, 25 mg, 100 mg, 500 mg, 1 g

STRUCTURE:



MOLECULAR FORMULA: C₂₁H₁₆N₄O₈S₂

MOLECULAR WEIGHT: 516.50

CAS NUMBER: 41906-86-9

APPEARANCE: Orange powder

SOLUBILITY: DMSO

PURITY: ≥95% by UV

STORAGE: At -20° C. Protect from light and air

DESCRIPTION: Nitrocefin is the chromogenic cephalosporin that acts as an excellent β-lactamase substrate. It exhibits a rapid distinctive color change from yellow (max at pH 7.0 = 390 nm) to red (max at pH 7.0 = 486 nm) as the amide bond in the beta-lactam ring is hydrolyzed by a β-lactamase. It is sensitive to hydrolysis by all known lactamases produced by Gram-positive and Gram-negative bacteria.

REFERENCE: Parr, T.R., Jr. (1984). *J. Clin. Microbiol.* **20**, 131-132.

RELATED PRODUCTS:

CENTA β-lactamase substrate (**Cat. No. 2394-10, 50**)

