Creative Enzymes®

β-Lactamase from Pseudomonas aeruginosa, Recombinant

Cat. No. NATE-0777

Lot. No. (See product label)

Introduction

Description	β--lactamase inactivates β-lactam antibiotics by breaking open the β-lactam ring.
Applications	β-lactamase is used to inactivate β-lactam antibiotics by breaking open the β-lactam ring. β-lactamase is used to study antibiotic resistance and resistance suppression. Product is produced from Pseudomonas aeruginosa and is expressed in E. coli.
Synonyms	β-lactamase; penicillinase; cephalosporinase; neutrapen; penicillin β-lactamase; exopenicillinase; ampicillinase; penicillin amido-β-lactamhydrolase; penicillinase I, II; β-lactamase I-III; β-lactamase A, B, C; β-lactamase AME I; cephalosporin-β-lactamase; EC 3.5.2.6; 9073-60-3

Product Information

Species	Pseudomonas aeruginosa
Source	E. coli
Form	Lyophilized powder containing sodium chloride and potassium phosphate.
EC Number	EC 3.5.2.6
CAS No.	9073-60-3
Activity	> 20 U/mg (with cephalosporin C); > 400 U/mg (with benzylpenicilin)
Unit Definition	One unit will hydrolyze 1.0 μmole substrate per min (βI: benzylpenicillin; βII: cephalosporin C) in HEPES buffer, pH 7.0 containing 10 μM zinc chloride at 25ºC.

Storage and Shipping Information

Storage	2-8°C