



Cephalosporinase

Catalog Number: 04-0002

Description Cephalosporinase (International enzyme number: EC3.5.2.8), which derived from *Pseudomonas aeruginosa*, is a member of β -lactamase. The amido bond of the cephamycin β -lactamase could be hydrolyzed effectively by this enzyme, so that the cephalosporin might lose its activity of antibiosis. The hydrolysable cephalosporins are included as followed: cephadroxil, cephradine, cefaclor, cefuroxime, cefixime, cefoperazone, cefotaxime and ceftriaxone. It is suitable for the sterility test of the cephalosporin antibiotic materials and injection drug inspection. It is also applicable to the microbial limit test of the drug detection for the other cephalosporin antibiotics.

Synonyms	Beta-lactamase, <i>Pseudomonas aeruginosa</i> AmpC, cephalosporinase
AA sequence	MRDTRFPCLCGIAASTLLFATTPAIAGEAPADRLKALVDAAVQPVMKANDIPGLAV AISL KGEPHYFSYGLASKEDGRRVTPETLFEIGSVSKTFTATLAGYALTQDKMRLDDRASQHW PALQGSRFDGISLLDLATYTAGGLPLQFPDSVQKDQAQIRDYYRQWQPTYAPGSQR LYS NPSIGLFGYLAARSLGQPFERLMEQQVFPALGLEQTHLDVPEAALAQAQGYGKDDRPL RVGPGPLDAEGYGVKTSAADLLRFVDANLHPERLDRPWAQALDATHRGYYKVGDMTQ GLGWEAYDWPISLKRLQAGNSTPMALQPHRIARLPAPQALEGQRLLNKTGSTNGFGAYV AFVPGRDLGLVILANRNYPNAERVKIAYAILSGLEQQGKVPLKR
Source	<i>Escherichia coli</i>
Molecular Weight	Approximately 43.4 kDa, a single non-glycosylated polypeptide chain containing 397 amino acids.
Purity	>98% by SDS-PAGE
Physical Appearance	White lyophilized powder or solution
Formulation	Lyophilized from a 0.2 μ m filtered concentrated solution with PBS, pH 6.5
method of application	Refer to China Pharmacopeia (2005 Edition, Volume II)
storage	Store at -20°C after receiving. Upon reconstitution, store at 2-8 °C for up to one month. For maximal stability, aliquot and store at -20 °C. Avoid repeated freeze/ thaw cycles.
PRICE	RMB 5250 /10,000U; RMB 16367 /1,000,000U
Usage	*This product is for research use only.