

Recombinant Beta Lactamase

Catalog No.	CSI12795 CSI12796 CSI12797	Quantity:	1.0 mg 10 mg 50 mg
Alternate Names:	β-Lactamase, EC 3.5.2.6, Cephalosporinase.		
Description:	Recombinant Beta Lactamase is a single, non-glycosylated polypeptide chain containing 263 amino acids.		
Source:	<i>E. coli</i>		
Molecular Weight:	29 kDa		
Formulation:	Lyophilized from a concentrated (1 mg/ml) solution in water containing 20 mM Phosphate buffer, pH 7.0		
Purity:	> 90% as determined by SDS-PAGE and RP-HPLC analysis.		
Endotoxin Level:	<0.1 ng/μg of protein.		
Specific Activity:	1,500 IU/mg. One unit will hydrolyze 1.0 μmole of indicated substrate per min at pH 7.0 at 25°C. The International Unit (using benzylpenicillin as substrate) is approximately equal to 600 Levy or 75 Pollock units.		
Amino Acid Sequence:	MHPETLVK VKDAEDQLGA RVGYIELDLN SGKILESFRP EERFPMMSTF KVLICGAVLS RVDAGQEQLG RRIHYSQNDL VEYSPVTEKH LTDGMTVRELCSAAITMSDN TAANLLTTI GGPKELTAFL HNMGDHVTRL DRWEPELNEA IPNDERDTTM PAAMATTLRK LLTGELLTLA SRQQLIDWME ADKVAGPLLR SALPAGWFIA DKSGAGERGS RGIIAALGPD GKPSRIVVIY TTGSQATMDE RNRQIAEIGA SLIKHW		
Reconstitution:	Centrifuge vial prior to opening. First add sterile distilled water to the vial to fully solubilize the protein to a concentration not less than 100 μg/ml. After complete solubilization of the protein, it can be further diluted to other aqueous solutions.		
Storage & Stability:	Store lyophilized protein at -20°C to -80°C. Reconstituted protein is stable for 1 week at 2 -4°C. For long term storage, aliquot and store at -20°C to -80°C with a carrier protein (0.1% HSA or BSA) as a stabilizer. Please note that the addition of any carrier protein into this product may produce unwanted endotoxin. This depends upon the particular application employed. Avoid repeated freeze-thaw cycles.		

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