Active Recombinant E. coli AmpC protein, His-tagged

Cat. No. ampC-967E **Lot. No.** (See product label)

SPECIFICATION

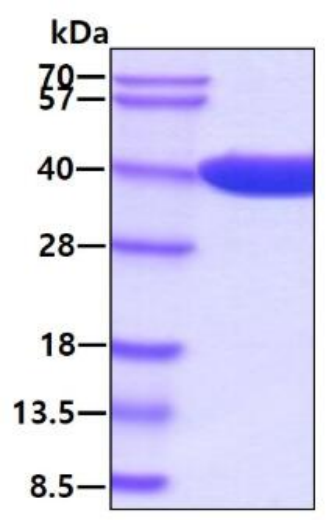
Product Overview	Recombinant E. coli beta-lactamase protein, fused to His-tag at N-terminus, was expressed in E. coli.
Species	E.coli
Source	E.coli
ProteinLength	20-377aa
Description	AmpC, also known as Beta-lactamase, is the most widespread resistance mechanism to beta-lactam antibiotics, such as the penicillins and the cephalosporins. These antibiotics have a common element in their molecular structure: a four-atom ring known as a beta-lactam. The lactamase enzyme breaks that ring open, deactivating the molecule's antibacterial properties. Recombinant E. coli beta-lactamase protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography.
Form	Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol.
Bio-activity	Specific activity is >700unit/mg, in which One unit will hydrolyze 1.0umole of Nitrocefin per minute at pH 7.0 at 37 centigrade.
Molecular Mass	41.8 kDa
AA Sequence	APQQINDIV HRTITPLIEQ QKIPGMAVAV IYQGKPYYFT WGYADIAKKQ

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

	PVTQQTLFEL GSVSKTFTGV LGGDAIARGE IKLSDPTTKY WPELTAKQWN GITLLHLATY TAGGLPLQVP DEVKSSSDLL RFYQNWQPAW APGTQRLYAN SSIGLFGALA VKPSGLSFEQ AMQTRVFQPL KLNHTWINVP PAEEKNYAWG YREGKAVHVS PGALDAEAYG VKSTIEDMAR WVQSNLKPLD INEKTLQQGI QLAQSRYWQT GDMYQGLGWE MLDWPVNPDS IINGSDNKIA LAARPVKAIT PPTPAVRASW VHKTGATGGF GSYVAFIPEK ELGIVMLANK NYPNPARVDA AWQILNALQ
Purity	> 95% by SDS-PAGE
Applications	SDS-PAGE, Enzyme Activity
Storage	Can be stored at 2 centigrade to 8 centigrade for 1 week. For long term storage, aliquot and store at -20 centigrade to -80 centigrade. Avoid repeated freezing and thawing cycles.
Concentration	1mg/ml

GENE INFORMATION

Gene Name	ampC beta-lactamase [Escherichia coli str. K-12 substr. MG1655]
Official Symbol	ampC
Synonyms	ampC; ampA; Cephalosporinase
Gene ID	948669
Protein Refseq	NP_418574
UniProt ID	P00811



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

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