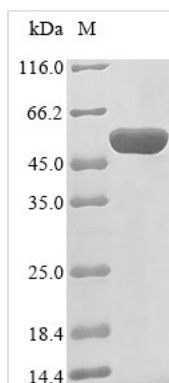




Recombinant Escherichia coli Beta-lactamase (ampC)

Product Code	CSB-EP360448ENV
Abbreviation	Recombinant E.coli ampC protein
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	P00811
Storage Buffer	Tris-based buffer,50% glycerol
Product Type	Recombinant Proteins
Immunogen Species	Escherichia coli (strain K12)
Purity	Greater than 85% as determined by SDS-PAGE.
Sequence	APQQINDIVHRTITPLIEQQKIPGMAVAVIYQGKPYFTWGYADIAKKQPVTQQT LFELGSVSKTFTGVLGGDAIARGEIKLSDPPTTKYWPELTAKQWNGITLLHLATY TAGGLPLQVPDEVKSSDLLRFYQNWQPAWAPGTQRLYANSSIGLFGALAVK PSGLSFEQAMQTRVFQPLKLNHTWINVPPAEEKNYAWGYREGKAVHVSPGAL DAEAYGVKSTIEDMARWVQSNLKPLDINEKTLQQGIQLAQSRYWQTGDMYQG LGWEMLDWPVNPDSIINGSNDKIALAARPVKAITPPTPAVRASWVHKTGATGG FGSYVAFIPEKELGIVMLANKNYPNPARVDAAWQILNALQ
Research Area	Microbiology
Source	E.coli
Target Names	ampC
Protein Names	Recommended name: Beta-lactamase EC= 3.5.2.6Alternative name(s): Cephalosporinase
Expression Region	20-377aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 6xHis-SUMO-tagged
Mol. Weight	52.5 kDa
Protein Length	Mature full length protein
Image	



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

Description

Just like other recombinant proteins, the production of this recombinant E.coli ampC protein began with appropriate cDNA and PCR methods, and then the ampC expression plasmids were built. Following sequence determination of the constructs, plasmids were transformed into E.coli for the expression of the recombinant E.coli ampC protein. N-terminal 6xHis-SUMO tag was used in the process. And we finally get the protein of interest with purity of 85%+.

ampC (also called ampA) is a gene providing an instruction of making a protein named beta-lactamase (also known as cephalosporinase) in Escherichia coli (E.coli). This protein belongs to Class-C beta-lactamase family, which are enzymes produced by bacteria, E.coli and Klebsiella. The protein encoded by ampC hydrolyzes the beta-lactam bond in susceptible beta-lactam antibiotics and takes part in antibiotic catabolic process and the process of response to antibiotic.

Shelf Life

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