

Beta-lactamase Recombinant Protein | ampC recombinant protein

Beta-lactamase, 20-377aa, E Coli, His tag, E Coli

CATALOG # AAA11802	HOST E Coli	APPLICATIONS SDS-Page
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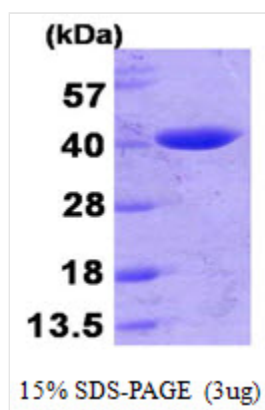
PRODUCT SYNONYMS

Beta-lactamase; 20-377aa; E Coli; His tag; ampC; ampA; Cephalosporinase; D-alanine carboxypeptidase; ampC recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	> 95% by SDS-PAGE
Form/Format	Liquid. 20mM Tris-HCl Buffer (pH 8.0) containing 10% glycerol
Concentration	1 mg/ml (determined by Bradford assay) (varies by lot)
Sequence Positions	20-377aa
Sequence	MGSSHHHHH SSSLVPRGSH MAPQQINDIV HRTITPLIEQ QKIPGMAVAV IYQGKPYFT WGYADIAKKQ PVTQQTLFEL GSVSKTFTGV LGGDAIARGE IKLSDPTTKY WPELTAKQWN GITLLHLATY TAGGLPLQVP DEVKSSDDL RFYQNWQPAW APGTQRLYAN SSIGLFGALA VKPSGLSFEQ AMQTRVFQPL KLNHTWINVP PAEEKNYAWG YREGKAVHVS PGALDAEAYG VKSTIEDMAR WVQSNLKPLD INEKTLLQGI QLAQSRWQT GDMYQGLGWE MLDWPVNPDS IINGSDNKIA LAARPVKAIT PPTPAVRASW VHKTGATGGF GSYVAFIEPK ELGIVMLANK NYPNPARVDA AWQILNALQ
Applicable Applications for ampC recombinant protein	SDS-PAGE
Tag	His-Tag
Preparation and Storage	Can be stored at 2-8°C for 1 week. For long term storage, aliquot and store -20°C to -80°C. Avoid repeated freezing and thawing cycles.

IMAGES



SDS-PAGE

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

ADDITIONAL INFORMATION

Related Product Information for ampC recombinant protein	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.
Product Categories/Family for ampC recombinant protein	Metabolism
References	Jaurin B., et al. (1981) Proc. Natl. Acad. Sci. u.S.A. 78:4897-4901; Morandi F, et al. (2003) J AM Chem Soc. 125 (3):685-95

NCBI AND UNIPROT INFORMATION

NCBI GI #	16131975
NCBI GeneID	948669
NCBI Accession #	NP_418574
NCBI GenBank Nucleotide #	NC_000913.3
UniProt Accession #	P00811; Q2M6F2
Molecular Weight	41.8 kDa (379aa) confirmed by MALDI-TOF
NCBI Official Full Name	penicillin-binding protein; beta-lactamase, intrinsically weak
NCBI Official Symbol	ampC
NCBI Official Synonym Symbols	ampA; ECK4146; JW4111
NCBI Protein Information	penicillin-binding protein; beta-lactamase, intrinsically weak
UniProt Protein Name	Beta-lactamase
UniProt Gene Name	ampC
UniProt Synonym Gene Names	ampA

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.