

Product datasheet

Recombinant Beta Lactamase protein (Tagged)
ab238278

3 Images

Description

Product name	Recombinant Beta Lactamase protein (Tagged)	
Purity	> 90 % SDS-PAGE.	
Expression system	Escherichia coli	
Accession	C7C422	
Protein length	Full length protein	
Animal free	No	
Nature	Recombinant	
Sequence	GEIRPTIGQQMETGDQRFGDLVFRQLAPNVWQHTSYL DMPGFGAVASNGL IVRDGGRLVVDTAWTDDQTAQILNWIQEIINLPVALAV VTHAHQDKMGG MDALHAAGIATYANALSNQLAPQEGMVAQHSITFAA NGWVEPATAPNFG PLKVFYPPGHTSDNITVGIDGTIAFGGCLIKDSKAKS LGNLGDADTEH YAASARAFGAAPFKASMVMVSHSAPDSRAAITHTARM ADKLR	
Predicted molecular weight	42 kDa including tags	
Amino acids	29 to 270	
Tags	His tag N-Terminus	
Additional sequence information	Species: Klebsiella pneumoniae. Full-length mature chain lacking the signal peptide. N-terminal 6xHis-SUMO-tagged	

Specifications

Our [Abpromise guarantee](#) covers the use of **ab238278** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	SDS-PAGE
	Mass Spectrometry

Mass spectrometry LC-MS/MS

Form Liquid

Preparation and Storage

Stability and Storage Shipped at 4°C. Store at -20°C or -80°C. Avoid freeze / thaw cycle.

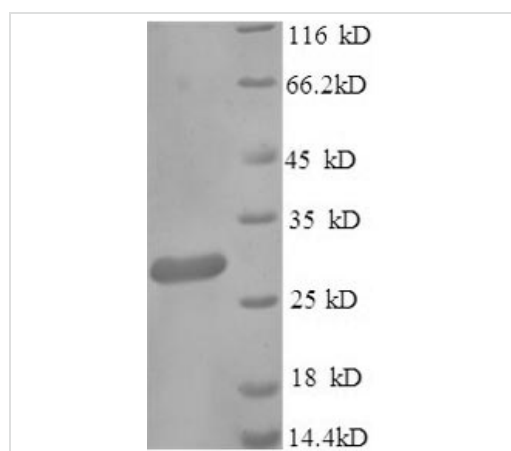
Constituents: Tris buffer, 50% Glycerol

General Info

Relevance

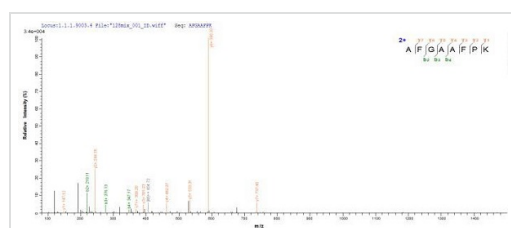
The beta lactam antibiotics (penicillins and cephalosporins) are the most frequently used antimicrobial agents. All of the beta lactams are structurally related through the presence of a core beta lactam ring. Bacterial resistance to beta lactams continues to increase, primarily due to the production of beta lactamases. Beta lactamases catalyze the hydrolysis of the beta lactam bond, which destroys antibacterial activity. Bacteria that produce TEM type or SHV type beta lactamases have point mutations in structural genes that have extended the substrate specificity of these beta lactamases. As a result, many of the beta lactamase producing Gram negative pathogens have become multidrug resistant.

Images



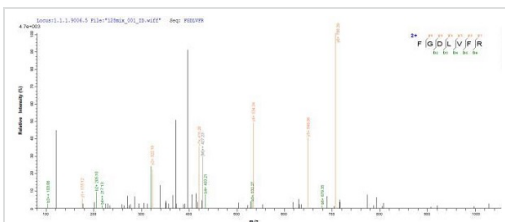
SDS-PAGE - Recombinant Beta Lactamase protein (Tagged) (ab238278)

ab238278 analyzed by (Tris-Glycine gel) discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.



Mass Spectrometry - Recombinant Beta Lactamase protein (Tagged) (ab238278)

Based on the SEQUEST from database of E.coli host and target protein, the LC-MS/MS Analysis result of ab238278 could indicate that this peptide derived from E.coli-expressed Klebsiella pneumoniae Beta Lactamase.



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