

Beta Lactamase Active Protein | LACTB active protein

Recombinant Beta Lactamase

CATALOG #
AAA10821

PRODUCT SYNONYMS

Beta Lactamase; Recombinant Beta Lactamase; b-Lactamase; EC 3.5.2.6; TEM precursor.; LACTB active protein

PRODUCT SPECIFICATIONS

Purity/Purification	Greater than 95.0% as determined by SDS-PAGE.
Form/Format	Lyophilized from a concentrated solution in 100mM Tris, pH7.0
Sequence	MHPETLVKVK DAEDQLGARV GYIELDLNSG KILESFRPEE RFPMMSTFKV LLCGAVLSRV DAGQEQLGRR IHYSQNDLVE YSPVTEKHLT DGMTVRELCS AAITMSDNTA ANLLTTIGG PKELTAFLHN MGDHVTRLDR WEPELNEAIP NDERDTTTPA AMATTLRKLL TGELLTLASR QQLIDWMEAD KVAGPLLRSALPAGWFIADK SGAGERGSRG IIAALGPDGK PSRIVVIYTT GSQATMDERN RQIAEIGASL IKHW.
Sequence Length	394
Source	Escherichia Coli
Physical Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.
Solubility	It is recommended to reconstitute the lyophilized Beta Lactamase in sterile 18MOMEGA-cm H2O at a concentration of 100 ug/ml, which can then be further diluted to other aqueous solutions. The Beta Lactamase should be used in pH 7.0- 8.0 and in temperature not higher than 45°C.
Biological Activity	One unit will hydrolyze 1.0 umole of benzyl penicillin at pH 7.0 at 25°C, in presence of EDTA.
Preparation and Storage	Lyophilized Beta Lactamase although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution Beta Lactamase Recombinant should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

ADDITIONAL INFORMATION

Related Product Information for LACTB active protein	Recombinant E.coli Beta-Lactamase produced in E.Coli is a single, non-glycosylated polypeptide chain containing 264 amino acids and having a molecular mass of approximately 28.9 kDa. Beta Lactamase is purified by proprietary chromatographic techniques.
Product Categories/Family for LACTB active protein	Enzymes

NCBI AND UNIPROT INFORMATION

NCBI GI #	126174307
NCBI GeneID	4845216
NCBI Accession #	YP_001050456.1
NCBI GenBank Nucleotide #	NC_009052.1
NCBI Official Full Name	beta-lactamase

UniProt Protein Name	Beta-lactamase
UniProt Gene Name	Sbal_2086
UniProt Entry Name	A3D4C4_SHEB5

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.

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Online datasheet: <https://stage.aaabiotech.com/lactb-active-protein/beta-lactamase/10821>