

## 32-2490: LACTB Recombinant Protein

**Alternative Name :** b-Lactamase, EC 3.5.2.6, TEM precursor.

### Description

Source : Escherichia Coli. Beta-Lactamase TEM precursor Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 263 amino acids and having a molecular mass of 29 kDa. Beta Lactamase is purified by proprietary chromatographic techniques. Beta-lactamase is a type of enzyme (EC 3.5.2.6) produced by some bacteria that is responsible for their resistance to beta-lactam antibiotics like penicillins, cephalosporins, cephamycins and carbapenems. 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.

### Product Info

<b>Amount :</b>	10 mg
<b>Purification :</b>	"Greater than 90.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE."
<b>Content :</b>	Lyophilized from a concentrated (1 mg/ml) solution in water containing 20mM Phosphate buffer pH-7.
<b>Storage condition :</b>	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.
<b>Amino Acid :</b>	MHPETLVK VKDAEDQLGA RVGYIELDLN SGKILESFRP EERFPMMSTF KVLLCGAVLS RVDAGQEQLG RRIHYSQNDL VEYSPVTEKH LTDGMTVREL CSAAITMSDN TAANLLTTI GGPKELEAFL HNMGDHVTSL DRWEPELNEA IPNDERDTTM PAAMATTLRK LLTGELLTLA SRQLIDWME ADKVAGPLLK SALPAGWFIA DKSGAGERGS RGIIAALGPD GKPSRIVVIY TTGSQATMDE RNRQIAEIGA SLIKHW.

### Application Note

It is recommended to reconstitute the lyophilized Beta Lactamase in sterile 18MΩ•cm H<sub>2</sub>O not less than 100 μg/ml, which can then be further diluted to other aqueous solutions.

