

LACTB

Description: 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.

Catalog #: ENPS-358

Synonyms: b-Lactamase, EC 3.5.2.6, TEM precursor.

For research use only.

Source: Escherichia Coli.

Physical Appearance: Sterile Filtered White lyophilized (freeze-dried) powder.

Amino Acid Sequence: MHPETLVK VKDAEDQLGA RVGYIELDLN SGKILESFRP
EERFPMSTF KVLGCGAVLS RVDAGQEQLG RRIHYSQNDL VEYSPVTEKH
LTDGMTVRELCSAAITMSDN TAANLLTTI GGPKELTAFL HNMGDHVTRL DRWEPELNEA
IPNDERDTM PAAMATTLRK LLTGELLTA SRQQLIDWME ADKVAGPLLR SALPAGWFIA
DKSGAGERGS RGIIAALGPD GKPSR

Purity: Greater than 90.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.

Formulation:

Lyophilized from a concentrated (1 mg/ml) solution in water containing 20mM Phosphate buffer pH-7.

Stability:

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.

Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. They may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

Solubility:

It is recommended to reconstitute the lyophilized Beta Lactamase in sterile 18M-cm H₂O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

Introduction:

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.

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