
Product Data Sheet

Product Name: LACTB E.coli, His
 Cat. No.: GP21858
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Beta-lactamase; Cephalosporinase; ampC; ampA; b4150; JW4111.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MAPQQINDIV HRTITPLIEQ QKIPGMAVAV IYQGKPYFT WGYADIakkQ PVTQQTlFEL GSVSKTFTGV LGGDAIARGE IKLSDPTTKY WPELTAKQWN GITLLHLATY TAGGLPLQVP DEVKSSDLL RFYQNWQPAW APGTQRLYAN SSIGLFGALA VKPSGLSFEQ AMQTRVFQPL KLNHTWINVP PAEEKNYAWG YREGKAVHVS PGALDAEAYG VKSTIEDMAR WVQSNLKLPLD INEKTlQQGI QLAQSRywQT GDMYQGLGWE MLDWPVNPDS IINGSDNKIA LAARPVKAIT PPTPAVRASW VHKTGATGGF GSYVAFIPEK ELGIVMLANK NYPNPARVDA AWQILNALQ.		
Formulation	The LACTB enzyme (1mg/ml) is supplied in 20mM Tris-HCl buffer (pH8.0) and 10% glycerol.		

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.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

Beta Lactamase is an E.coli Recombinant protein produced in E.Coli containing 379

Caution: Product has not been fully validated for medical applications. For research use only.

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amino acids (20-377) and having a molecular mass of 41.8kDa. Beta Lactamase is expressed with a 21N-terminalHis tag. The LACTB is purified by proprietary chromatographic techniques.

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