

Datasheet for ABIN7596299

LACTB Protein (AA 20-377) (His tag)



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Overview

Quantity:	500 µg
Target:	LACTB
Protein Characteristics:	AA 20-377
Origin:	E. coli
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This LACTB protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Enzyme Activity Assay (EAA)

Product Details

Sequence:	APQQINDIV HRTITPLIEQ QKIPGMAVAV IYQGKPYFT WGYADIAKKQ PVTQQTLFEL GSVSKTFTGV LGGDAIARGE IKLSDPTTKY WPELTAKQWN GITLLHLATY TAGGLPLQVP DEVKSSDLL RFYQNWQPAW APGTQRLYAN SSIGLFGALA VKPSGLSFEQ AMQTRVFQPL KLNHTWINVP PAEEKNYAWG YREGKAVHVS PGALDAEAYG VKSTIEDMAR WVQSNLKPLD INEKTLLQGI QLAQSRYWQT GDMYQGLGWE MLDWPVNPDS IINGSDNKIA LAARPVKAIT PPTPAVRASW VHKTGATGGF GSYVAFIPEK ELGIVMLANK NYPNPARVDA AWQILNALQ
Purity:	> 95% by SDS-PAGE
Biological Activity Comment:	Specific activity is >700unit/mg, in which One unit will hydrolyze 1.0umole of Nitrocefin per minute at pH 7.0 at 37C

Target Details

Target:	LACTB
Alternative Name:	Beta-lactamase (LACTB Products)
Background:	AmpC, also known as Beta-lactamase, is the most widespread resistance mechanism to beta-lactam antibiotics, such as the penicillins and the cephalosporins. 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. Recombinant E. coli beta-lactamase protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography.
Molecular Weight:	41.8 kDa (379aa) confirmed by MALDI-TOF
NCBI Accession:	NP_418574

Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1 mg/mL
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	Can be stored at +2°C to +8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C. Avoid repeated freezing and thawing cycles.