L-Threonine Dehydratase Catabolic Tdcb (tdcB) Staphylococcus Aureus Recombinant Protein

PRODUCT OVERVIEW

Product Name	L-threonine dehydratase catabolic TdcB (tdcB), Recombinant Protein
Full Product Name	Recombinant Staphylococcus aureus L-threonine dehydratase catabolic TdcB (tdcB)
Product Gene Name	tdcB recombinant protein
Product Synonym Gene Name	tdcB
Sequence	MTTNTVTLQT AHIVSLGDIE EAKASIKPFI RRTPLIKSMY LSQNITKGNV YLKLENMQFT GSFKFRGASN KINHLSDEQK AKGIIGASAG NHAQGVALTA KLLGIDATIV MPETAPIAKQ NATKGYGAKV ILKGKNFNET RLYMEELAKE NGMTIVHPYD DKFVMAGQGT IGLEILDDIW NVNTVIVPVG GGGLIAGIAT ALKSFNPSIH IIGVQAENVH GMAESFYKRA LTEHREDSTI ADGCDVKVPG EKTYEVVKHL VDEFILVSEE EIEHAMQDLM QRAKIITEGA GALPTAAILS GKIDKKWLEG KNVVALVSGG NVDLTRVSGV IEHGLNIADT SKGVVG
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.
Molecular Weight	37,147 Da
Sequence Positions	1-346, Full length protein
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
3D Structure	ModBase 3D Structure for Q7A5L8
Species	Staphylococcus aureus (strain N315)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for tdcB recombinant protein	MBS1350449 is a recombinant protein targeting tdcB. Also known as Recombinant Staphylococcus aureus L-threonine dehydratase catabolic TdcB (tdcB). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of tdcB recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for tdcB. It may not necessarily be applicable to this product.

NCBI GI #	446132962
NCBI Accession #	WP_000210817.1
UniProt Primary Accession #	Q7A5L8
GenBank Nucleotide #	WP_000210817.1

NCBI Official Full Name	MULTISPECIES: serine/threonine dehydratase
UniProt Protein Name	L-threonine dehydratase catabolic TdcB
UniProt Synonym Protein Names	Threonine deaminase
Protein Family	L-threonine ammonia-lyase
UniProt Gene Name	tdcB
UniProt Comments for tdcB	Catalyzes the anaerobic formation of alpha-ketobutyrate and ammonia from threonine in a two-step reaction. The first step involved a dehydration of threonine and a production of enamine intermediates (aminocrotonate), which tautomerizes to its imine form (iminobutyrate). Both intermediates are unstable and short-lived. The second step is the nonenzymatic hydrolysis of the enamine/imine intermediates to form 2-ketobutyrate and free ammonia. In the low water environment of the cell, the second step is accelerated by RidA ().
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