Putative Thiaminase-2 (tenA) Recombinant Protein

PRODUCT OVERVIEW

Product Name	Putative thiaminase-2 (tenA), Recombinant Protein
Full Product Name	Recombinant Staphylococcus saprophyticus subsp. saprophyticus Putative thiaminase-2 (tenA)
Product Gene Name	tenA recombinant protein
Product Synonym Gene Name	tenA
Sequence	MLFSEQLKKE AKPIINQIYH DPFIQGMLHG NLPTEATKFY LRADASYLNE FANIYALLIP KMGNLNDVRF LVEQIQFIVD GEVEAHEILA DYVQESYNEI VQEKVWPPSG DHYIKHMYFN AYAKENAAYT IAAMAPCPYV YQFIAQEALR DKELNKDSIL AKWFEFYSTE MDELVIVFDN LMDKLTKHCS EKEKNEIKQC FLQSTVHERN FFNMSFNEES WSYGGMKNE
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	26,881 Da
Sequence Positions	1-229, 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 Q49Z42
Species	Staphylococcus saprophyticus subsp. saprophyticus (strain 15305 / DSM 20229)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for tenA recombinant protein	MBS1458397 is a recombinant protein targeting tenA. Also known as Recombinant Staphylococcus saprophyticus subsp. saprophyticus Putative thiaminase-2 (tenA). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of tenA 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 tenA. It may not necessarily be applicable to this product.

NCBI GI #	499621952
NCBI Accession #	WP_011302686.1
UniProt Primary Accession #	Q49Z42
GenBank Nucleotide #	WP_011302686.1
NCBI Official Full Name	thiaminase II

UniProt Protein Name	Aminopyrimidine aminohydrolase
UniProt Synonym Protein Names	Thiaminase II
Protein Family	Aminopyrimidine aminohydrolase
UniProt Gene Name	tenA
UniProt Comments for tenA	Catalyzes an amino-pyrimidine hydrolysis reaction at the C5' of the pyrimidine moiety of thiamine compounds, a reaction that is part of a thiamine salvage pathway. Thus, catalyzes the conversion of 4-amino-5-aminomethyl-2-methylpyrimidine to 4-amino-5-hydroxymethyl-2-methylpyrimidine (HMP). Is also able to catalyze the hydrolytic cleavage of thiamine; however, this thiaminase activity may not be physiologically relevant. Therefore, is probably involved in the regeneration of the thiamine pyrimidine from thiamine degraded products present in the environment, rather than in thiamine degradation.
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