Thiamine Thiazole Synthase (THI4) Candida Albicans Recombinant Protein

PRODUCT OVERVIEW

Product Name	Thiamine thiazole synthase (THI4), Recombinant Protein
Full Product Name	Recombinant Candida albicans Thiamine thiazole synthase (THI4)
Product Gene Name	THI4 recombinant protein
Product Synonym Gene Name	THI4
Sequence	MTPPTMLQTA PVESFNLNPK STQQAINLKS DAKNGKVSFA DWNEFKFAPI RESTVSRAMT RRYFADLDKF AESDIVIIGA GSAGLSAAYT LGKNRPDLKI AIIEASVSPG GGCWLGGQLF SAMVLRKPAH LFLDDMGLDY EDEGDYVVVK HAALFMSTLM SKVLQFPNIK LFNATAVEDL ITRKDPATNL QRIAGVVVNW AQLDHDTQSC MDPNTINCNV VLSTSGHDGP FGAFTAKRLE QLGRAPRDVT AGFTKPSITT SKLQEPEPIS NFQLGGMKGL DMNKAEDAIV KGTREVVPGL VIAGMELAEV DGSNRMGPTF GAMALSGVKA AESVLNVLEL RKQQNEACYG AYKG
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	38,170 Da
Sequence Positions	1-354, Full length
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 Q5ANB7
Species	Candida albicans (strain SC5314 / MYA-2876) (Yeast)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for THI4 recombinant protein	MBS1455893 is a recombinant protein targeting THI4. Also known as Recombinant Candida albicans Thiamine thiazole synthase (THI4). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of THI4 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 THI4. It may not necessarily be applicable to this product.

NCBI GI #	68465671
NCBI GeneID	3635160
NCBI Accession #	XP_723197.1
UniProt Primary Accession #	Q5ANB7

UniProt Secondary Accession #	A0A1D8PKC0
UniProt Related Accession #	Q5ANB7
GenBank Nucleotide #	XM_718104.1
NCBI Official Full Name	thiamine thiazole synthase
NCBI Official Symbol	THI4
UniProt Protein Name	Thiamine thiazole synthase
UniProt Synonym Protein Names	Thiazole biosynthetic enzyme
Protein Family	Probable thiamine biosynthetic bifunctional enzyme
UniProt Gene Name	THI4
NCBI Protein Information	thiamine thiazole synthase
UniProt Comments for THI4	Involved in biosynthesis of the thiamine precursor thiazole. Catalyzes the conversion of NAD and glycine to adenosine diphosphate 5-(2-hydroxyethyl)-4-methylthiazole-2-carboxylic acid (ADT), an adenylated thiazole intermediate. The reaction includes an iron-dependent sulfide transfer from a conserved cysteine residue of the protein to a thiazole intermediate. The enzyme can only undergo a single turnover, which suggests it is a suicide enzyme. May have additional roles in adaptation to various stress conditions and in DNA damage tolerance.
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