Butyrate--Acetoacetate Coa-Transferase Subunit A (ctfA) Clostridium Acetobutylicum Recombinant Protein

PRODUCT OVERVIEW

Product Name	Butyrate--acetoacetate CoA-transferase subunit A (ctfA), Recombinant Protein
Full Product Name	Recombinant Clostridium acetobutylicum Butyrate--acetoacetate CoA-transferase subunit A (ctfA)
Product Gene Name	ctfA recombinant protein
Sequence	MNSKIIRFEN LRSFFKDGMT IMIGGFLNCG TPTKLIDFLV NLNIKNLTII SNDTCYPNTG IGKLISNNQV KKLIASYIGS NPDTGKKLFN NELEVELSPQ GTLVERIRAG GSGLGGVLTK TGLGTLIE KGKKKISING TEYLLELPLT ADVALIKGSI VDEAGNTFYK GTTKNFNPYM AMAAKTVIVE AENLVSCEKL EKEKAMTPGV LINYIVKEPA
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	30.6 kDa
Sequence Positions	1-218. 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 P33752
Species	Clostridium acetobutylicum (strain 824 / DSM 792 / JCM 1419 / LMG 5710 / VKM B-1787)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for ctfA recombinant protein	MBS1120500 is a recombinant protein targeting ctfA. Also known as Recombinant Clostridium acetobutylicum Butyrate--acetoacetate CoA-transferase subunit A (ctfA). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of ctfA 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 ctfA. It may not necessarily be applicable to this product.

NCBI GI #	15004866
NCBI GeneID	1116168
NCBI Accession #	NP_149326.1
UniProt Primary Accession #	P33752
UniProt Secondary Accession #	O06494

UniProt Related Accession #	P33752
GenBank Nucleotide #	NC_001988.2
NCBI Official Full Name	butyrate-acetoacetate COA-transferase subunit A (plasmid)
NCBI Official Symbol	ctfa
UniProt Protein Name	Butyrate--acetoacetate CoA-transferase subunit A
UniProt Synonym Protein Names	Acetoacetyl-CoA:acetate/butyrate:CoA transferase subunit A
Protein Family	Butyrate--acetoacetate CoA-transferase
UniProt Gene Name	ctfA
UniProt Synonym Gene Names	Coat A
NCBI Protein Information	butyrate-acetoacetate COA-transferase subunit A
UniProt Comments for ctfA	Involved in solventogenic switch which allows C.acetobutylicum to uptake acid and produce solvents. Acts mainly to detoxify the medium by removing the acetate and butyrate excreted earlier in the fermentation.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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