Holin-Like Protein Cida (Cida) (BCA_3768) Bacillus Cereus Recombinant Protein

PRODUCT OVERVIEW

Product Name	Holin-like protein CidA (cidA) (BCA_3768), Recombinant Protein
Full Product Name	Recombinant Bacillus cereus Holin-like protein CidA (cidA)
Product Gene Name	BCA_3768 recombinant protein
Product Synonym Gene Name	cidA
Product Synonym Names	Recombinant Holin-like protein CidA (cidA); Holin-like protein CidA
Sequence	MKWWKLSGQI LLLFCFAWTG EWIAKQAHLP VPGSIIGIFL LLISLKFNLV KKEWIQDGAD FLLKELILFF IPSAVAVIRY KDTLSQYGID LILIIMISTL CVTLVTGLLT ELLLKRKGSV Q
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 degree C. For extended storage, store at -20 or -80 degree C.
Molecular Weight	13,735 Da
Sequence Positions	1-121
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.
Chromosome Location	NC_012472.1 (3524199..3524564)
3D Structure	ModBase 3D Structure for C1ENB1
Species	Bacillus cereus (strain 03BB102)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for BCA_3768 recombinant protein	MBS1218341 is a recombinant protein targeting BCA_3768. Also known as Recombinant Bacillus cereus Holin-like protein CidA (cidA). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of BCA_3768 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 BCA_3768. It may not necessarily be applicable to this product.

NCBI GI #	225865652
NCBI GeneID	7692691
NCBI Accession #	YP_002751030.1
UniProt Primary Accession #	C1ENB1

GenBank Nucleotide #	NC_012472.1
NCBI Official Full Name	hypothetical protein BCA_3768
NCBI Official Symbol	BCA_3768
UniProt Protein Name	Holin-like protein CidA
UniProt Gene Name	cidA
UniProt Entry Name	CIDA_BACC3
NCBI Protein Information	holin-like protein
UniProt Comments for BCA_3768	Function: Increases the activity of extracellular murein hydrolases possibly by mediating their export via hole formation. Inhibited by the antiholin-like proteins LrgAB. In an unstressed cell, the LrgAB products probably inhibit the function of the CidA protein. When a cell is stressed by the addition of antibiotics or by other factors in the environment, CidA possibly oligomerizes within the bacterial cell membrane, creating lesions that disrupt the proton motive force, which in turn results in loss of cell viability. These lesions are also hypothesized to regulate the subsequent cell lysis by either allowing the murein hydrolases access to the cell wall substrate and/or regulating their activity by a possible change in the cell wall pH that results from loss of membrane potential By similarity. HAMAP-Rule MF_01143 Subcellular location: Cell membrane; Multi-pass membrane protein Potential HAMAP-Rule MF_01143. Sequence similarities: Belongs to the CidA/LrgA family. CidA subfamily.
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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