ATP-Dependent Helicase/Nuclease Subunit A (addA) Bacillus Pumilus Recombinant Protein

PRODUCT OVERVIEW

Product Name	ATP-dependent helicase/nuclease subunit A (addA), Recombinant Protein
Full Product Name	Recombinant Bacillus pumilus ATP-dependent helicase/nuclease subunit A (addA), partial
Product Gene Name	addA recombinant protein
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	142,263 Da
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 A8FBR1
Species	Bacillus pumilus (strain SAFR-032)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for addA recombinant protein	MBS1168693 is a recombinant protein targeting addA. Also known as Recombinant Bacillus pumilus ATP-dependent helicase/nuclease subunit A (addA), partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of addA 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 addA. It may not necessarily be applicable to this product.

NCBI GI #	500857991
NCBI Accession #	WP_012009495.1
UniProt Primary Accession #	A8FBR1
GenBank Nucleotide #	WP_012009495.1
NCBI Official Full Name	ATP-dependent helicase/nuclease subunit A
UniProt Protein Name	ATP-dependent helicase/nuclease subunit A
UniProt Synonym Protein Names	ATP-dependent helicase/nuclease AddA
Protein Family	ATP-dependent helicase/nuclease
UniProt Gene Name	addA

UniProt Comments for addA	The heterodimer acts as both an ATP-dependent DNA helicase and an ATP-dependent, dual-direction single-stranded exonuclease. Recognizes the chi site generating a DNA molecule suitable for the initiation of homologous recombination. The AddA nuclease domain is required for chi fragment generation; this subunit has the helicase and 3' -> 5' nuclease activities.
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