ATP-Dependent Clp Protease Proteolytic Subunit 6, Chloroplastic (CLPP6) Arabidopsis Thaliana Recombinant Protein

PRODUCT OVERVIEW

Product Name	ATP-dependent Clp protease proteolytic subunit 6, chloroplastic (CLPP6), Recombinant Protein
Full Product Name	Recombinant Arabidopsis thaliana ATP-dependent Clp protease proteolytic subunit 6, chloroplastic (CLPP6)
Product Gene Name	CLPP6 recombinant protein
Product Synonym Gene Name	CLPP6
Sequence	AGLSSNVSGS PIKIDNKAPR FGVIEAKKGN PPVMPSVMTP GGPLDLSSVL FRNRIIFIGQ PINAQVAQRV ISQLVTLASI DDKSDILMYL NCPGGSTYSV LAIYDCMSWI KPKVGTVAFG VAASQGALLL AGGEKGMRYA MPNTRVMIHQ PQTGCGGHVE DVRRQVNEAI EARQKIDRMY AAFTGQPLEK VQQYTERDRF LSASEALEFG LIDGLLETEY
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	29,382 Da
Sequence Positions	52-271, 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 Q9SAA2
Species	Arabidopsis thaliana (Mouse-ear cress)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for CLPP6 recombinant protein	MBS1326789 is a recombinant protein targeting CLPP6. Also known as Recombinant Arabidopsis thaliana ATP-dependent Clp protease proteolytic subunit 6, chloroplastic (CLPP6). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of CLPP6 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 CLPP6. It may not necessarily be applicable to this product.

NCBI GI #	18391311
NCBI GeneID	837719
NCBI Accession #	NP_563893.1
UniProt Primary Accession #	Q9SAA2

UniProt Secondary Accession #	O48891
UniProt Related Accession #	Q9SAA2
GenBank Nucleotide #	NM_101047.3
NCBI Official Full Name	CLP protease proteolytic subunit 6
NCBI Official Symbol	CLPP6
NCBI Official Synonym Symbols	ATP-DEPENDENT CLP PROTEASE PROTEOLYTIC SUBUNIT; CLP protease proteolytic subunit 6; F25C20.10; F25C20_10; NCLPP1; NCLPP6; NUCLEAR-ENCODED CLPP 1
UniProt Protein Name	ATP-dependent Clp protease proteolytic subunit 6, chloroplastic
UniProt Synonym Protein Names	Endopeptidase ClpP6
Protein Family	ATP-dependent Clp protease proteolytic
UniProt Gene Name	CLPP6
UniProt Synonym Gene Names	nClpP6
NCBI Protein Information	CLP protease proteolytic subunit 6
NCBI Summary for CLPP6	One of several nuclear-encoded ClpPs (caseinolytic protease). Contains a highly conserved catalytic triad of Ser-type proteases (Ser-His-Asp). The name reflects nomenclature described in Adam et. al (2001).
UniProt Comments for CLPP6	Cleaves peptides in various proteins in a process that requires ATP hydrolysis. Has a chymotrypsin-like activity. Plays a major role in the degradation of misfolded proteins (). Essential protein required for chloroplast development and integrity.
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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