Presequence protease 1, chloroplastic/mitochondrial (PREP1), Recombinant Protein

CD BioSciences
Plant Protein

Cat *RP05095*

Species
Arabidopsis thaliana (Mouse-ear cress)

Full Product Name
Recombinant Arabidopsis thaliana Presequence protease 1, chloroplastic/mitochondrial (PREP1) , partial

Product Gene Name
PREP1 recombinant protein

Product Synonym Gene Name
PREP1

Purity
Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)

Format
Lyophilized or liquid (Format to be determined during the manufacturing process)

Host
E Coli or Yeast or Baculovirus or Mammalian Cell

Molecular Weight
121,015 Da

Storage
Store at -20℃. For long-term storage, store at -20℃ or -80℃. Store working aliquots at 4℃ for up to one week. Repeated freezing and thawing is not recommended.

Protein Family
Presequence protease

NCBI Accession
NP_188548.2

NCBI GI
22331173

NCBI GenBank Nucleotide
NM_112804.5

NCBI GeneID
821451

NCBI Official Full Name
presequence protease 1

NCBI Official Symbol
PREP1

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

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NCBI Official Synonym Symbols
ATPREP1; ATZNMP; presequence protease 1

NCBI Protein Information
presequence protease 1

NCBI Summary
Zinc metalloprotease pitrilysin subfamily A. Signal peptide degrading enzyme targeted to mitochondria and chloroplasts. Expressed only in siliques and flowers

UniProt Gene Name
PREP1

UniProt Synonym Gene Names
ZNMP1; AtPreP1; PreP 1; AtZnMP1

UniProt Protein Name
Presequence protease 1, chloroplastic/mitochondrial

UniProt Synonym Protein Names
Zinc metalloprotease 1; AtZnMP1

UniProt Primary Accession
Q9LJL3

UniProt Secondary Accession
Q8RUN6

UniProt Related Accession
Q9LJL3

UniProt Comments
ATP-independent protease that degrades both mitochondrial and chloroplastic transit peptides after their cleavage. Also degrades other unstructured peptides. Specific for peptides in the range of 10 to 65 residues. Shows a preference for cleavage after small polar residues and before basic residues, with a bias for positively charged amino acid residues.

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