

# Ribonuclease Z, chloroplastic (CPZ), Recombinant Protein

Cat      *RP00421*

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## Species

*Arabidopsis thaliana* (Mouse-ear cress)

## Full Product Name

Recombinant *Arabidopsis thaliana* Ribonuclease Z, chloroplastic (CPZ) , partial

## Product Gene Name

CPZ recombinant protein

## Product Synonym Gene Name

CPZ

## 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

39,951 Da

## Storage

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

## Protein Family

Carboxypeptidase

## NCBI Accession #

NP\_178532.2

## NCBI GI #

22325471

## NCBI GenBank Nucleotide #

NM\_126484.5

## NCBI GeneID

814995

## NCBI Official Full Name

Metallo-hydrolase/oxidoreductase superfamily protein

## NCBI Official Symbol

CPZ

## NCBI Official Synonym Symbols

**FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY**

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# Ribonuclease Z, chloroplastic (CPZ), Recombinant Protein

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T1O3.6; T1O3\_6; TRNASE Z 2; TRZ2

## NCBI Protein Information

Metallo-hydrolase/oxidoreductase superfamily protein

## NCBI Summary

Encodes a protein with RNase Z activity suggesting a role in tRNA processing. Protein contains a signal sequence for import into the chloroplast.

## UniProt Gene Name

TRZ2

## UniProt Synonym Gene Names

AthTRZS2

## UniProt Protein Name

tRNase Z TRZ2, chloroplastic

## UniProt Synonym Protein Names

Chloroplast ribonuclease Z

## UniProt Primary Accession #

Q8L633

## UniProt Secondary Accession #

Q8LGU8; Q9SJB8

## UniProt Related Accession #

Q8L633

## UniProt Comments

Zinc phosphodiesterase, which displays tRNA 3'-processing endonuclease activity. Involved in tRNA maturation, by removing a 3'-trailer from precursor tRNA.

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