

# Protease Do-like 1, chloroplastic (DEGP1), Recombinant Protein

Cat RP04153

Size 0.02 mg (E-Coli)/ 0.02 mg (Yeast)/ 0.1 mg (E-Coli)/ 0.1 mg (Yeast)/ 0.02 mg (Baculovirus)/ 0.02 mg (Mammalian-Cell)/ 0.1

mg (Baculovirus)/ 1 mg (E-Coli)/ 1 mg (Yeast)/ 0.1 mg (Mammalian-Cell)/ 1 mg (Baculovirus)/ 0.5 mg (Mammalian-Cell)  
Species Arabidopsis thaliana (Mouse-ear cress)

## Full Product Name

Recombinant Arabidopsis thaliana Protease Do-like 1, chloroplastic (DEGP1)

## Product Gene Name

DEGP1 recombinant protein

## Purity

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

## Sequence

FVVSTPKKLQ TDELATVRLF QENTPSVVYI TNLAVRQDAF TLDVLEVPQG SGSGFVWDKQ GHIVTNYHVI  
RGASDLRVTL ADQTTFDAKV VGFDQDKDVA VLRIDAPKNK LRPIVGVSA DLLVGQKVFA IGNPFGLDHT  
LTTGVISGLR REISSAATGR PIQDVIQTDA AINPGNSGGP LLDSSGTLIG INTAIYSPSG ASSGVGFSIP  
VDTVGIVDQ LVRFGKVTRP ILGIKFAPDQ SVEQLGVSGV LVLDAPPSGP AGKAGLQSTK RDGYGRLVLG  
DIITSVNGTK VSNGLDLYRI LDQCKVGDEV TVEVLRGDHK EKISVTLEPK PDES

## Sequence Positions

106-439, Full length protein

## Format

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

## Host

E Coli or Yeast or Baculovirus or Mammalian Cell

## Molecular Weight

46,674 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

Protease

## NCBI Accession #

NP\_001325789.1

## NCBI GI #

1063714234

## NCBI GenBank Nucleotide #

NM\_001338921.1

## NCBI GenID

822416

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

# Protease Do-like 1, chloroplastic (DEGP1), Recombinant Protein

Cat      *RP04153*

Size      0.02 mg (*E-Coli*)/ 0.02 mg (*Yeast*)/ 0.1 mg (*E-Coli*)/ 0.1 mg  
(*Yeast*)/ 0.02 mg (*Baculovirus*)/ 0.02 mg (*Mammalian-Cell*)/ 0.1

mg (*Baculovirus*)/ 1 mg (*E-Coli*)/ 1 mg (*Yeast*)/ 0.1 mg  
(*Mammalian-Cell*)/ 1 mg (*Baculovirus*)/ 0.5 mg (*Mammalian-Cell*)

## NCBI Official Full Name

DegP protease 1

## NCBI Official Symbol

DEG1

## NCBI Official Synonym Symbols

Deg1; DegP protease 1; DEGP1; degradation of periplasmic proteins 1

## NCBI Protein Information

DegP protease 1

## NCBI Summary

Encodes a DegP protease; nuclear gene encoding chloroplast-targeted protease that can degrade two luminal proteins, plastocyanin and OE33, suggesting a role as a general-purpose protease in the thylakoid lumen. Involved in the degradation of D1 protein of PS II, hence participating in the repair of PS II damages caused by photoinhibition.

## UniProt Gene Name

DEGP1

## UniProt Synonym Gene Names

DEG1; DEGP; DEGP PROTEASE 1

## UniProt Protein Name

Protease Do-like 1, chloroplastic

## UniProt Synonym Protein Names

Protein DEGRADATION OF PERIPLASMIC PROTEINS 1; DEGP PROTEASE 1

## UniProt Primary Accession #

O22609

## UniProt Secondary Accession #

Q94BX6; Q9LK85

## UniProt Related Accession #

O22609

## UniProt Comments

Serine protease that is required at high temperature. May be involved in the degradation of damaged proteins. In vivo, can degrade beta-casein.

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