

# Aspartic protease inhibitor 1 (pA1), Recombinant Protein

Cat *RP15273*

Size 0.02 mg (E-Coli)/ 0.1 mg (E-Coli)/ 0.02 mg (Yeast)/ 0.1 mg (Yeast)/ 0.02 mg (Baculovirus)/ 0.02 mg (Mammalian-Cell)/ 1

Species mg (E-Coli)/ 0.1 mg (Baculovirus)/ 1 mg (Yeast)/ 0.1 mg (Mammalian-Cell)/ 1 mg (Baculovirus)/ 0.5 mg (Mammalian-Cell)  
Solanum tuberosum (Potato)

## Full Product Name

Recombinant Solanum tuberosum Aspartic protease inhibitor 1

## Product Gene Name

pA1 recombinant protein

## Purity

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

## Sequence

ESPVPKPVLD TNGKKNPNS SYRIISTFWG ALGGDVYLGK SPNSDAPCPD GVFRYNSDVG PSGTPVRFIP  
LSTNIFEDQL LNIQFNIPTV KLCVSYTIWK VGNLNTHLWT MLETGGTIG KADSSYFKIV KSSKFGYNLL  
YCPITRPPIV CPFCRDDDFC AKVGVVIQNG KRRLALVNEN PLDVLQEV

## Sequence Positions

33-221, 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

24,546 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

Aspartic protease inhibitor

## NCBI Accession #

Q41480.2

## NCBI GI #

20137331

## NCBI Official Full Name

Aspartic protease inhibitor 1

## UniProt Gene Name

pA1

## UniProt Synonym Gene Names

pA1

**FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY**

# Aspartic protease inhibitor 1 (pA1), Recombinant Protein

Cat *RP15273*

Size *0.02 mg (E-Coli)/ 0.1 mg (E-Coli)/ 0.02 mg (Yeast)/ 0.1 mg (Yeast)/ 0.02 mg (Baculovirus)/ 0.02 mg (Mammalian-Cell)/ 1*

**UniProt Protein Name**  
*mg (E-Coli)/ 0.1 mg (Baculovirus)/ 1 mg (Yeast)/ 0.1 mg (Mammalian-Cell)/ 1 mg (Baculovirus)/ 0.5 mg (Mammalian-Cell)*  
Aspartic protease inhibitor 1

## UniProt Synonym Protein Names

STPIA; STPID; gCDI-A1

## UniProt Primary Accession #

Q41480

## UniProt Secondary Accession #

Q41483

## UniProt Comments

Inhibitor of cathepsin D (aspartic protease). May also inhibit trypsin and chymotrypsin (serine proteases). Protects the plant by inhibiting proteases of invading organisms.

**FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY**