Serine protease inhibitor 2, Recombinant Protein

CD BioSciences
Plant Protein

Cat *RP15367*

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

Species
Solanum tuberosum (Potato)

Full Product Name
Recombinant Solanum tuberosum Serine protease inhibitor 2

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

Sequence
LPSDATPVLD VTGKELDSRL SYRIISTFWG ALGGDVYLGK SPNSDAPCAN GIFRYNSDVG PSGTPVRFIG SSSHFGQGIF ENELLNIQFA ISTSKLCVSY TIWKVGDYDA SLGTMLLETG GTIGQADSSW FKIVKSSQLG YNLLYCPVTS

Sequence Positions
1-150, 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
20,116 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
Serine protease inhibitor

NCBI Accession
P58515.1

NCBI GI
21362950

NCBI Official Full Name
Serine protease inhibitor 2

UniProt Protein Name
Serine protease inhibitor 2

UniProt Synonym Protein Names
PSPI-21; PSPI-21-5.2

UniProt Primary Accession
P58515

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

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UniProt Comments

Potent inhibitor of serine proteases (chymotrypsin and trypsin). Inhibits tightly human leukocyte elastase (HLE). Does not inhibit papain, pepsin nor cathepsin D (cysteine and aspartic proteases). Protects the plant by inhibiting proteases of invading organisms, decreasing both hyphal growth and zoospores germination of Phytophthora infestans.

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