

Serine protease inhibitor 3, Recombinant Protein

Cat *RP15407*

Size *0.05 mg (E-Coli)/ 0.2 mg (E-Coli)/ 0.05 mg (Yeast)/ 0.5 mg (E-Coli)/ 0.05 mg (Baculovirus)/ 0.2 mg (Yeast)/ 1 mg (E-Coli)/ 0.5*

Species *mg (Yeast)/ 0.1 mg (Baculovirus)/ 0.05 mg (Mammalian-Cell)/ 1 mg (Yeast)/ 0.5 mg (Baculovirus)/ 0.1 mg (Mammalian-Cell)/ 1 mg (Baculovirus)*
Solanum tuberosum (Potato)

Full Product Name

Recombinant Solanum tuberosum Serine protease inhibitor 3

Product Synonym Names

Recombinant Serine protease inhibitor 3; Serine protease inhibitor 3; PSPI-22

Purity

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

Sequence

FVLPFDVLDS GRDLDRGWPY A

Sequence Positions

1-21aa; 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

2,439 Da

Storage

Store at -20°C. For extended storage, store at -20 or -80°C.

Protein Family

Serine protease inhibitor

NCBI Accession

P58516.1

NCBI GI

20139998

NCBI Official Full Name

Serine protease inhibitor 3

UniProt Protein Name

Serine protease inhibitor 3

UniProt Synonym Protein Names

PSPI-22

UniProt Entry Name

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

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mg (Yeast)/ 0.1 mg (Baculovirus)/ 0.05 mg (Mammalian-Cell)/ 1

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

mg (B)

UniProt Primary Accession

P58516

UniProt Comments

Function: Inhibits trypsin and chymotrypsin (serine proteases). Does not inhibit elastase, subtilisin, cathepsin L nor papain (serine and cysteine proteases). Protects the plant by inhibiting proteases of invading organisms, decreasing both hyphal growth and zoospores germination of *Phytophthora infestans*. Subcellular location: Vacuole By similarity. Tissue specificity: Tubers. Induction: By infection with *Phytophthora infestans*. Miscellaneous: Has a single chain structure. Sequence similarities: Belongs to the protease inhibitor I3 (leguminous Kunitz-type inhibitor) family.

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