

Cysteine protease inhibitor 2, Recombinant Protein

Cat RP15412

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

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)
Species Solanum tuberosum (Potato)

Full Product Name

Recombinant Solanum tuberosum Cysteine protease inhibitor 2

Product Synonym Names

Recombinant Cysteine protease inhibitor 2; Cysteine protease inhibitor 2; PKI-2

Purity

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

Sequence

LVLPEVYDQD GHPLRIGQRY IINNP

Sequence Positions

1-25aa; 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

2,920 Da

Storage

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

Protein Family

Cysteine protease inhibitor

NCBI Accession

P24744.1

NCBI GI

130255

NCBI Official Full Name

Cysteine protease inhibitor 2

UniProt Protein Name

Cysteine protease inhibitor 2

UniProt Synonym Protein Names

PKI-2

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

P24744

UniProt Comments

Function: Inhibitor of subtilisin. Inhibits moderately trypsin and chymotrypsin (serine proteases). May protect the plant by inhibiting proteases of invading organisms. Tissue specificity: Cortex of tuber. Sequence similarities: Belongs to the protease inhibitor I3 (leguminous Kunitz-type inhibitor) family. Caution: postulates a moderate inhibition of serine proteases but the sequence homology points to a cysteine protease inhibitor.

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