

Cysteine proteinase inhibitor 1 (Os01g0803200, LOC_Os01g58890), Recombinant Protein

Cat *RP14222*

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

(*Mammalian-Cell*)/ 0.1 mg (*Baculovirus*)/ 1 mg (*Yeast*)/ 0.1 mg
(*Mammalian-Cell*)/ 1 mg (*Baculovirus*)/ 0.5 mg (*Mammalian-Cell*)
Species *Oryza sativa* subsp. *japonica* (*Rice*)

Full Product Name

Recombinant *Oryza sativa* subsp. *japonica* Cysteine proteinase inhibitor 1 (Os01g0803200, LOC_Os01g58890)

Product Gene Name

Os01g0803200 recombinant protein

Purity

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

Sequence

EAHRAGGE EKMSSDGGPV LGGVEPVGNE NDLHLVDLAR FAVTEHNKKA NSLLEFEKLV SVKQQVVAGT
LYYFTIEVKE GDAKKLYEAK VWEKPWMDFK ELQEFKPVDA SANA

Sequence Positions

27-140, 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

10,068 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.

NCBI Accession

XP_015621143.1

NCBI GI

1002233880

NCBI GenBank Nucleotide

XM_015765657.1

NCBI GeneID

4327535

NCBI Official Full Name

cysteine proteinase inhibitor 1

NCBI Official Symbol

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

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

LOC4327588 (Mammalian-Cell)/ 0.1 mg (Baculovirus)/ 1 mg (Yeast)/ 0.1 mg

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

OC-I; OsCP1; SPOC-I; cystatin

NCBI Protein Information

cysteine proteinase inhibitor 1

UniProt Gene Name

Os01g0803200

UniProt Synonym Gene Names

OC-I

UniProt Protein Name

Cysteine proteinase inhibitor 1

UniProt Synonym Protein Names

Oryzacystatin I; OC-I; Oryzacystatin-1; OsCP1; SPOC-I

UniProt Primary Accession

P09229

UniProt Secondary Accession

Q0JIG4; Q547V7; Q7F5W6; Q9SBW0

UniProt Related Accession

P09229

UniProt Comments

There are two distinct cystatins in rice seeds (Oryzacystatin-1 and -2) with different specificities against cysteine proteinases. May be involved in the control of germination by inhibition of endogenous cysteine proteinases. May play a role in defense by inhibiting exogenous proteases such as those present in digestive tracks of insects and nematodes.

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