

Polygalacturonase inhibitor 2 (PGIP2), Recombinant Protein



Cat RP04641

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

Species mg (Baculovirus)/ 1 mg (E-Coli)/ 1 mg (Yeast)/ 0.1 mg (Mammalian-Cell)/ 1 mg (Baculovirus)/ 0.5 mg (Mammalian-Cell)
Arabidopsis thaliana (Mouse-ear cress)

Full Product Name

Recombinant Arabidopsis thaliana Polygalacturonase inhibitor 2 (PGIP2)

Product Gene Name

PGIP2 recombinant protein

Product Synonym Gene Name

PGIP2

Purity

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

Sequence

KDLCHKDDKT TLLKIKKSLN NPYHLASWDP KTDCCSWYCL ECGDATVNHR VTSLIIQDG ISGQIPPEVG
DLPYLTSLIF RKLTNLTGHI QPTIAKLKNL TFLRLSWTNL TGPVPEFLSQ LKNLEYIDL FNDSLGSIPS
SLSLRKLEY LECSRNLKLTG PIPESFGTFS GKVPSLFLSH NQLSGTIPKS LGNPDFYRID LSRNKLQGDA
SILFGAKKTT WIVDISRNMF QFDLSKVKLA KTLNNLDMNH NGITGSIPAE WSKAYFQLLN VSYNRLCGRI
PKGEYIQRFD SYSFFHNKCL CGAPLPSCK

Sequence Positions

22-330, 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

37,068 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.

Protein Family

Polygalacturonase inhibitor

NCBI Accession

NP_196305.1

NCBI GI

15240183

NCBI GenBank Nucleotide

NM_120770.4

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

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NCBI GeneID 830578
mg (Baculovirus)/ 1 mg (E-Coli)/ 1 mg (Yeast)/ 0.1 mg (Mammalian-Cell)/ 1 mg (Baculovirus)/ 0.5 mg (Mammalian-Cell)

NCBI Official Full Name

polygalacturonase inhibiting protein 2

NCBI Official Symbol

PGIP2

NCBI Official Synonym Symbols

ARABIDOPSIS POLYGALACTURONASE INHIBITING PROTEIN 2; ATPGIP2; MOJ9.4; MOJ9_4;
polygalacturonase inhibiting protein 2; POLYGALACTURONASE INHIBITING PROTEIN 2

NCBI Protein Information

polygalacturonase inhibiting protein 2

NCBI Summary

Encodes a polygalacturonase inhibiting protein involved in plant defense response. PGIPs inhibit the activity of pectin degrading enzymes such as those produced by fungal pathogens. PGIP2 is induced by fungal infection and methyl jasmonate. Suppressed in the proton sensitive stop1-mutant, but the transcription level was recovered by transformation of STOP2. Knockout mutant showed severe damage in the root tip in low Ca and low pH medium.

UniProt Gene Name

PGIP2

UniProt Synonym Gene Names

PGIP-2

UniProt Protein Name

Polygalacturonase inhibitor 2

UniProt Synonym Protein Names

Polygalacturonase-inhibiting protein 2; PGIP-2

UniProt Primary Accession

Q9M5J8

UniProt Secondary Accession

Q9FL58

UniProt Related Accession

Q9M5J8

UniProt Comments

Inhibitor of fungal polygalacturonase. It is an important factor for plant resistance to phytopathogenic fungi.

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