

Floral homeotic protein PISTILLATA (PI), Recombinant Protein

Cat *RP00094*

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*

Species *mg (E-Coli)/ 0.1 mg (Baculovirus)/ 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 Floral homeotic protein PISTILLATA (PI)

Product Gene Name

PI recombinant protein

Purity

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

Sequence

MGRGKIEIKR IENANNRVVT FSKRRNGLVK KAKEITVLCD AKVALIIFAS NGKMIDYCCP SMDLGAMLDQ
YQKLSGKKLW DAKHENLSNE IDRIKKENDS LQLELRHLKG EDIQLNLKN LMAVEHAIEH GLDKVRDHQM
EILISKRRNE KMMAEEQRQL TFQLQQQEMA IASNARGMMM RDHDGQFGYR VQPIQPNLQE KIMSLVID

Sequence Positions

1-208, 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

24,047 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

Floral homeotic protein

NCBI Accession

NP_197524.1

NCBI GI

15241299

NCBI GenBank Nucleotide

NM_122031.4

NCBI GeneID

832146

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

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mg (E-Coli)/ 0.1 mg (Baculovirus)/ 1 mg (Yeast)/ 0.1 mg (Mammalian-Cell)/ 1 mg (Baculovirus)/ 0.5 mg (Mammalian-Cell)
K-box region and MADS-box transcription factor family protein

NCBI Official Symbol

PI

NCBI Official Synonym Symbols

F5O24.130; F5O24_130; FLORAL HOMEOTIC PROTEIN PISTILLATA; PISTILLATA

NCBI Protein Information

K-box region and MADS-box transcription factor family protein

NCBI Summary

Floral homeotic gene encoding a MADS domain transcription factor. Required for the specification of petal and stamen identities.

UniProt Gene Name

PI

UniProt Protein Name

Floral homeotic protein PISTILLATA

UniProt Synonym Protein Names

Transcription factor PI

UniProt Primary Accession

P48007

UniProt Secondary Accession

Q9SQ07; Q9SQ08; Q9SQ09; Q9SQ10; Q9SQ11; Q9SQ12; Q9SQ13

UniProt Related Accession

P48007

UniProt Comments

Probable transcription factor involved in the genetic control of flower development. Is required for normal development of petals and stamens in the wild-type flower. Forms a heterodimer with APETALA3 that is required for autoregulation of both AP3 and PI genes. AP3/PI heterodimer interacts with APETALA1 or SEPALLATA3 to form a ternary complex that could be responsible for the regulation of the genes involved in the flower development. AP3/PI heterodimer activates the expression of NAP.

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