

Bifunctional purple acid phosphatase 26 (PAP26), Recombinant Protein

Cat RP05112

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

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

Full Product Name

Recombinant Arabidopsis thaliana Bifunctional purple acid phosphatase 26 (PAP26)

Product Gene Name

PAP26 recombinant protein

Product Synonym Gene Name

PAP26

Purity

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

Sequence

SEWPAVDIPL DHHVFKVPKG YNAPQQVHIT QGDYDGKAVI ISWVTPDEPG SSQVHYGAVQ GKYEFAQGT
YHNYTFYKYK SGFIHHCLVS DLEHDTKYYY KIESGESSRE FWFVTPPHVH PDASYKFGII GDMGQTFNSL
STLEHYMESG AQAVLFLGDL SYADRYQYND VGVWRWDSWGR FVERSTAYQP WLWSAGNHEV
DYMPYMGEVT PFRNYLQRYT TPYLASKSSS PLWYAVRRAS AHIIVLSSYS PFVKYTPQWH WLSEELTRVD
REKTPWLIVL MHVPIYNSNE AHFMEGESMR AAFEWFVQH KVDVIFAGHV HAYERSYRIS NVRYNVSSGD
RYPVPDKSAP VYITVGDDGN QEGLAGRFTE PQPDYSAFRE ASYGHSTLDI KNRTHAIYHW NRDDGKKVA
TDEFVLHNQY WGKNIRRRKL KKHYSRVVG GWIAT

Sequence Positions

31-475, 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

55,010 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

NP_198334.1

NCBI GI

15242870

NCBI GenBank Nucleotide

NM_122874.4

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

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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

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

NCBI GeneID

833406

NCBI Official Full Name

purple acid phosphatase 26

NCBI Official Symbol

PAP26

NCBI Official Synonym Symbols

ATPAP26; purple acid phosphatase 26; PURPLE ACID PHOSPHATASE 26; T5E15.10; T5E15_10

NCBI Protein Information

purple acid phosphatase 26

NCBI Summary

Encodes a root-secreted purple acid phosphatase precursor involved in extracellular phosphate-scavenging.

UniProt Gene Name

PAP26

UniProt Protein Name

Bifunctional purple acid phosphatase 26

UniProt Primary Accession

Q949Y3

UniProt Secondary Accession

Q5MAU9

UniProt Related Accession

Q949Y3

UniProt Comments

Metallo-phosphoesterase involved in phosphate metabolism. Acid phosphatase activity with phosphoenolpyruvate, inorganic pyrophosphate, phenyl-phosphate and p-nitrophenyl-phosphate as the most effective substrates. No activity with phytic acid, phosphocholine or bis-p-nitrophenyl-phosphate. Has a peroxidase activity at alkaline pH.

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