

Probable calcium-binding protein CML18 (CML18), Recombinant Protein

Cat RP04629

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)/ 1 mg (Arabidopsis thaliana (Mouse-ear cress))

Full Product Name

Recombinant Arabidopsis thaliana Probable calcium-binding protein CML18 (CML18)

Product Gene Name

CML18 recombinant protein

Product Synonym Gene Name

CML18

Purity

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

Sequence

MSCDGGKPAP AKLGDEQLAE LREIFRSFDQ NKGDSLTEL LGSSLRSLGL KPSQDQLDTL IQKADRNNNG
LVEFSEFVAL VEPDLVKCPY TDDQLKAIFR MFDRDGNGYI TAAELAHSMA KLGHALTAE LTGMIKEADR
DGDGCIDFQE FVQAITSAAF DNAWG

Sequence Positions

1-165, 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

18,090 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

Probable calcium-binding protein

NCBI Accession

NP_186950.1

NCBI GI

15228441

NCBI GenBank Nucleotide

NM_111170.2

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

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NCBI GenelD 821161
EF hand calcium-binding protein family

NCBI Official Full Name

EF hand calcium-binding protein family

NCBI Official Symbol

AT3G03000

NCBI Official Synonym Symbols

F13E7.5; F13E7_5

NCBI Protein Information

EF hand calcium-binding protein family

NCBI Summary

Calmodulin like protein localized in the plant vacuolar compartment with a function of binding and modifying the activity of a tonoplast transporter (AtNHX1) from within the vacuole in a Ca²⁺- and pH-dependent manner

UniProt Gene Name

CML18

UniProt Synonym Gene Names

CAM15; AtCaM-15

UniProt Protein Name

Probable calcium-binding protein CML18

UniProt Synonym Protein Names

Calmodulin-15; AtCaM-15; Calmodulin-like protein 18

UniProt Primary Accession

Q9M8U1

UniProt Related Accession

Q9M8U1

UniProt Comments

Potential calcium sensor that modulates ion selectivity of NHX1.

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