

Allene oxide cyclase 1, chloroplastic (AOC1), Recombinant Protein

Cat *RP01815*

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

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

Full Product Name

Recombinant Arabidopsis thaliana Allene oxide cyclase 1, chloroplastic (AOC1)

Product Gene Name

AOC1 recombinant protein

Product Synonym Gene Name

AOC1

Purity

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

Sequence

PSKVQELSVY EINDLDRHSP KILKNAFSFR FGLGDLVPFT NKLYTGDLKK RVGITAGLCV VIEHVPEKNG
DRFEATYSFY FGDYGHLSVQ GPYLTYESDF LAITGGAGIF EGAYGQVKLQ QLVYPTKLFY TFYLGKLAND
LPLELIGTPV PPSKDVEPAP EAKALKPSGV VSNFTN

Sequence Positions

79-254, 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

27,802 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

Allene oxide cyclase

NCBI Accession

NP_189204.1

NCBI GI

15230874

NCBI GenBank Nucleotide

NM_113475.5

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)

NCBI GeneID

822167

NCBI Official Full Name

allene oxide cyclase 1

NCBI Official Symbol

AOC1

NCBI Official Synonym Symbols

allene oxide cyclase 1; early-responsive to dehydration 12; ERD12

NCBI Protein Information

allene oxide cyclase 1

NCBI Summary

encodes allene oxide cyclase. One of four genes in Arabidopsis that encode this enzyme, which catalyzes an essential step in jasmonic acid biosynthesis. Gene expression is induced during senescence, a process that involves jasmonic acid signalling pathway.

UniProt Gene Name

AOC1

UniProt Synonym Gene Names

ERD12

UniProt Protein Name

Allene oxide cyclase 1, chloroplastic

UniProt Synonym Protein Names

Early-responsive to dehydration 12 protein

UniProt Primary Accession

Q9LS03

UniProt Secondary Accession

Q94IH9

UniProt Related Accession

Q9LS03

UniProt Comments

Involved in the production of 12-oxo-phytodienoic acid (OPDA), a precursor of jasmonic acid.

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