# 1-aminocyclopropane-1-carboxylat e oxidase 3 (At1g12010), Recombinant Protein



Cat RP09228

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)/ 1 mg (Yeast)/ 0.1 mg

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# Specie§e//)

Arabidopsis thaliana (Mouse-ear cress)

#### **Full Product Name**

Recombinant Arabidopsis thaliana 1-aminocyclopropane-1-carboxylate oxidase 3 (At1g12010)

#### **Product Gene Name**

At1g12010 recombinant protein

# **Purity**

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

## Sequence

MEMNIKFPVI DLSKLNGEER DQTMALIDDA CQNWGFFELV NHGLPYDLMD NIERMTKEHY KKHMEQKFKE MLRSKGLDTL ETEVEDVDWE STFYLHHLPQ SNLYDIPDMS NEYRLAMKDF GKRLEILAEE LLDLLCENLG LEKGYLKKVF HGTTGPTFAT KLSNYPPCPK PEMIKGLRAH TDAGGLILLF QDDKVSGLQL LKDGDWVDVP PLKHSIVINL GDQLEVITNG KYKSVMHRVM TQKEGNRMSI ASFYNPGSDA EISPATSLVD KDSKYPSFVF DDYMKLYAGL KFQAKEPRFE AMKNAEAAAD LNPVAVVETF

# Sequence Positions

1-320, 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**

36,532 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**

1-aminocyclopropane-1-carboxylate oxidase

#### **NCBI Accession #**

NP\_172665.1

#### NCBI GI#

15221170

#### NCBI GenBank Nucleotide #

NM\_101073.3

#### FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

Address: SUITE 209, 17 Ramsey Road, Shirley, NY 11967 E-mail: info@cd-biosci.com
Tel: 1-631-637-0420 https://www.cd-biosciences.com/plant-protein/

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#### NCBI GerielD

837753

#### **NCBI Official Full Name**

2-oxoglutarate (2OG) and Fe(II)-dependent oxygenase superfamily protein

# **NCBI Official Symbol**

AT1G12010

## **NCBI Official Synonym Symbols**

F12F1.12; F12F1\_12

#### **NCBI Protein Information**

2-oxoglutarate (2OG) and Fe(II)-dependent oxygenase superfamily protein

# **NCBI Summary**

Encodes a protein that appears to have 1-amino-cyclopropane-1-carboxylic acid oxidase activity based on mutant analyses.

#### **UniProt Gene Name**

At1g12010

# UniProt Synonym Gene Names

ACC oxidase 3: AtACO3

#### **UniProt Protein Name**

1-aminocyclopropane-1-carboxylate oxidase 3

# **UniProt Primary Accession #**

O65378

#### **UniProt Related Accession #**

O65378

#### **UniProt Comments**

Enzyme involved in the ethylene biosynthesis. May promote stem elongation by maximizing the extensibility cells, possibly by activating ethylene biosynthesis, in response to very-long-chain fatty acids (VLCFAs C20:0 to C30:0).

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