# Delta (24)-sterol reductase (DIM), Recombinant Protein



Cat RP00372

# **Species**

Arabidopsis thaliana (Mouse-ear cress)

## **Full Product Name**

Recombinant Arabidopsis thaliana Delta (24)-sterol reductase (DIM), partial

## **Product Gene Name**

DIM recombinant protein

# **Product Synonym Gene Name**

DIM

# **Purity**

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

#### **Format**

Lyophilized or liquid (Format to be determined during the manufacturing process)

#### Host

E Coli or Yeast or Baculovirus or Mammalian Cell

# **Molecular Weight**

65,394 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\_001319595.1

#### NCBI GI#

1063712578

## NCBI GenBank Nucleotide #

NM 001338420.1

### NCBI GenelD

821519

### **NCBI Official Full Name**

cell elongation protein / DWARF1 / DIMINUTO (DIM)

# **NCBI Official Symbol**

DWF1

# **NCBI Official Synonym Symbols**

CABBAGE 1; CBB1; DIM; DIM1; DIMINUTIA; DIMINUTO 1; DWARF 1; ENHANCED VERY-LOW-FLUENCE RESPONSES 1; EVE1

### FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

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# Delta (24)-sterol reductase (DIM), Recombinant Protein



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## **NCBI Protein Information**

cell elongation protein / DWARF1 / DIMINUTO (DIM)

# **NCBI Summary**

Involved in the conversion of the early brassinosteroid precursor 24-methylenecholesterol to campesterol. Brassinosteroids affect cellular elongation. Mutants have dwarf phenotype. DWF1 is a Ca2+-dependent calmodulin-binding protein.

## **UniProt Gene Name**

DIM

# **UniProt Synonym Gene Names**

CBB1; DWF1; EVE1

## **UniProt Protein Name**

Delta(24)-sterol reductase

# **UniProt Synonym Protein Names**

Cell elongation protein DIMINUTO; Cell elongation protein Dwarf1; Protein CABBAGE1; Protein ENHANCED VERY-LOW-FLUENCE RESPONSE 1

# **UniProt Primary Accession #**

Q39085

# **UniProt Secondary Accession #**

Q0WWL4; Q38808; Q8RXF4

# **UniProt Related Accession #**

Q39085

### **UniProt Comments**

Plays a critical role in the general process of plant cell elongation. Involved in the synthesis of campesterol, an early precursor of brassinolide. Required for the conversion of 24-methylenecholesterol to campesterol and for the conversion of isofucosterol to sitosterol. Necessary for both the isomerization and reduction of 24-methylenecholesterol. Regulate indirectly phytochrome-mediated light responses through the modulation of brassinosteroid biosynthesis.

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