

9-cis-epoxycarotenoid dioxygenase NCED9, chloroplastic (NCED9), Recombinant Protein

Cat *RP05061*

Species

Arabidopsis thaliana (Mouse-ear cress)

Full Product Name

Recombinant *Arabidopsis thaliana* 9-cis-epoxycarotenoid dioxygenase NCED9, chloroplastic (NCED9) , partial

Product Gene Name

NCED9 recombinant protein

Product Synonym Gene Name

NCED9

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

73,015 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

9-cis-epoxycarotenoid dioxygenase

NCBI Accession

NP_177960.1

NCBI GI

15218314

NCBI GenBank Nucleotide

NM_106486.3

NCBI GeneID

844175

NCBI Official Full Name

nine-cis-epoxycarotenoid dioxygenase 9

NCBI Official Symbol

NCED9

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

9-cis-epoxycarotenoid dioxygenase NCED9, chloroplastic (NCED9), Recombinant Protein

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NCBI Official Synonym Symbols

ATNCED9; F3F9.10; F3F9_10; nine-cis-epoxycarotenoid dioxygenase 9; NINE-CIS-EPOXYCAROTENOID DIOXYGENASE 9

NCBI Protein Information

nine-cis-epoxycarotenoid dioxygenase 9

NCBI Summary

Encodes 9-cis-epoxycarotenoid dioxygenase, a key enzyme in the biosynthesis of abscisic acid. The expression of this gene increases during the first 6h of imbibition.

UniProt Gene Name

NCED9

UniProt Synonym Gene Names

AtNCED9

UniProt Protein Name

9-cis-epoxycarotenoid dioxygenase NCED9, chloroplastic

UniProt Primary Accession

Q9M9F5

UniProt Related Accession

Q9M9F5

UniProt Comments

Has a 11,12(11',12') 9-cis epoxycarotenoid cleavage activity. Catalyzes the first step of abscisic-acid biosynthesis from carotenoids. Contributes probably to abscisic acid synthesis for the induction of seed dormancy.

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