Temperature-sensitive omega-3 fatty acid desaturase, chloroplastic (FAD8), Recombinant Protein

CD BioSciences
Plant Protein

Cat RP01213

Species
Arabidopsis thaliana (Mouse-ear cress)

Full Product Name
Recombinant Arabidopsis thaliana Temperature-sensitive omega-3 fatty acid desaturase, chloroplastic (FAD8), partial

Product Gene Name
FAD8 recombinant protein

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
50,136 Da

Storage
Store at -20℃. For long-term storage, store at -20℃ or -80℃. Store working aliquots at 4℃ for up to one week. Repeated freezing and thawing is not recommended.

Protein Family
Temperature-sensitive sn-2 acyl-lipid omega-3 desaturase

NCBI Accession
NP_196177.1

NCBI GI
15239175

NCBI GenBank Nucleotide
NM_120640.4

NCBI GeneID
830441

NCBI Official Full Name
fatty acid desaturase 8

NCBI Official Symbol
FAD8

NCBI Official Synonym Symbols

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

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AtFAD8; fatty acid desaturase 8; MOP10.12; MOP10_12; OMEGA-3 FATTY ACID DESATURASE

NCBI Protein Information

fatty acid desaturase 8

NCBI Summary

Encodes a temperature sensitive plastidic fatty acid desaturase.

UniProt Gene Name

FAD8

UniProt Protein Name

Temperature-sensitive sn-2 acyl-lipid omega-3 desaturase (ferredoxin), chloroplastic

UniProt Synonym Protein Names

Temperature-sensitive omega-3 fatty acid desaturase 8, chloroplastic

UniProt Primary Accession

P48622

UniProt Related Accession

P48622

UniProt Comments

Chloroplast omega-3 fatty acid desaturase introduces the third double bond in the biosynthesis of 16:3 and 18:3 fatty acids, important constituents of plant membranes. It is thought to use ferredoxin as an electron donor and to act on fatty acids esterified to galactolipids, sulfolipids and phosphatidylglycerol.

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