Digalactosyldiacylglycerol synthase 1, chloroplastic (DGD1), Recombinant Protein



Cat RP02070

Species

Arabidopsis thaliana (Mouse-ear cress)

Full Product Name

Recombinant Arabidopsis thaliana Digalactosyldiacylglycerol synthase 1, chloroplastic (DGD1), partial

Product Gene Name

DGD1 recombinant protein

Product Synonym Gene Name

DGD1

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

72,727 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

Digalactosyldiacylglycerol synthase

NCBI Accession #

NP_187773.1

NCBI GI#

15229824

NCBI GenBank Nucleotide

NM_111999.4

NCBI GeneID

820339

NCBI Official Full Name

UDP-Glycosyltransferase superfamily protein

NCBI Official Symbol

DGD1

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

Address: SUITE 209, 17 Ramsey Road, Shirley, NY 11967 Tel: 1-631-637-0420

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NCBI Official Synonym Symbols

DIGALACTOSYL DIACYLGLYCEROL DEFICIENT 1; DIGALACTOSYLDIACYLGLYCEROL SYNTHASE 1

NCBI Protein Information

UDP-Glycosyltransferase superfamily protein

NCBI Summary

Responsible for the final assembly of galactolipids in photosynthetic membranes. Provides stability to the PS I core complex (e.g. subunits PsaD, PsaE).

UniProt Gene Name

DGD1

UniProt Protein Name

Digalactosyldiacylglycerol synthase 1, chloroplastic

UniProt Primary Accession #

Q9S7D1

UniProt Secondary Accession #

Q3EB81: W8PUU5

UniProt Related Accession #

Q9S7D1

UniProt Comments

Involved in the synthesis of diacylglycerol galactolipids that are specifically found in thylakoid membranes. Specific for alpha-glycosidic linkages (PubMed:10381884, PubMed:14600212). Responsible for the final assembly of galactolipids in photosynthetic membranes. Digalactosyldiacylglycerol (DGDG) provides stability to the photosystem I (PSI) complex, especially to the PsaA, PsaB, PsaC, PsaL and PsaH subunits (PubMed:15961080, PubMed:16854937).

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