Sterol 14-demethylase (CYP51G1), Recombinant Protein

CD BioSciences
Plant Protein

Cat *RP08654*

Species
Arabidopsis thaliana (Mouse-ear cress)

Full Product Name
Recombinant Arabidopsis thaliana Sterol 14-demethylase (CYP51G1) , partial

Product Gene Name
CYP51G1 recombinant protein

Product Synonym Gene Name
CYP51G1

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
55,495 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
Sterol 14-demethylase

NCBI Accession
NP_172633.1

NCBI GI
15221075

NCBI GenBank Nucleotide
NM_101040.4

NCBI GeneID
837712

NCBI Official Full Name
CYTOCHROME P450 51G1

NCBI Official Symbol
CYP51G1

NCBI Official Synonym Symbols

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CYP51; CYP51A2; CYTOCHROME P450 51; CYTOCHROME P450 51A2; CYTOCHROME P450 51G1; EMB1738; embryo defective 1738; F25C20.17; F25C20_17

NCBI Protein Information

CYTOCHROME P450 51G1

NCBI Summary

putative obtusifoliol 14-alpha demethylase involved in sterol biosynthesis.

UniProt Gene Name

CYP51G1

UniProt Synonym Gene Names

CYP51A2; EMB1738; AtCYP51

UniProt Protein Name

Sterol 14-demethylase

UniProt Synonym Protein Names

Cytochrome P450 51A2; Cytochrome P450 51G1; AtCYP51; Obtusifoliol 14-demethylase; Protein EMBRYO DEFECTIVE 1738

UniProt Primary Accession

Q9SAA9

UniProt Related Accession

Q9SAA9

UniProt Comments

Involved in sterol biosynthesis. Catalyzes the 14-alpha demethylation of obtusifoliol to 4 alpha-methyl-5 alpha-ergosta-8,14,24(28)-trien-3 beta-ol.

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