

D-lactate dehydrogenase [cytochrome], mitochondrial (DLD), Recombinant Protein

Cat *RP00436*

Species

Arabidopsis thaliana (Mouse-ear cress)

Full Product Name

Recombinant *Arabidopsis thaliana* D-lactate dehydrogenase [cytochrome], mitochondrial (DLD) , partial

Product Gene Name

DLD recombinant protein

Product Synonym Gene Name

DLD

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

62,176 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

Delta-like protein

NCBI Accession

NP_568170.1

NCBI GI

18415252

NCBI GenBank Nucleotide

NM_120741.3

NCBI GeneID

830546

NCBI Official Full Name

FAD-linked oxidases family protein

NCBI Official Symbol

AT5G06580

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

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NCBI Official Synonym Symbols

F15M7.11; F15M7_11

NCBI Protein Information

FAD-linked oxidases family protein

NCBI Summary

Encodes a protein with glycolate dehydrogenase activity, which was shown to complement various subunits of the *E. coli* glycolate oxidase complex. It has not been ruled out that the enzyme might be involved in other catalytic activities in vivo.

UniProt Gene Name

DLD

UniProt Synonym Gene Names

GDH; AtD-LDH

UniProt Protein Name

D-lactate dehydrogenase [cytochrome], mitochondrial

UniProt Synonym Protein Names

D-lactate ferricytochrome C oxidoreductase; Glycolate deshydrogenase

UniProt Primary Accession

Q94AX4

UniProt Secondary Accession

Q9FG12

UniProt Related Accession

Q94AX4

UniProt Comments

Catalyzes the stereospecific oxidation of D-lactate to pyruvate. Involved in the detoxification of methylglyoxal and D-lactate, but probably not involved in the metabolism of glycolate.

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