Dihydrolipoyl dehydrogenase 1, mitochondrial (LPD1), Recombinant Protein



Cat RP01963

Size 0.02 mg (E-Coli)/ 0.02 mg (Yeast)/ 0.1 mg (E-Coli)/ 0.1 mg

(Veast)/ 0 02 ma (Raculovirus)/ 0 02 ma (Mammalian-Cell)/ 0 1

Species (Yeast)/ 1 mg (E-Coli)/ 0.1 mg (Mammalian-Cell)/ 1 mg (Yeast)/ 1 mg (Baculovirus)/ 0.5 mg (Mammalian-Cell)
Arabidopsis thaliana (Mouse-ear cress)

Full Product Name

Recombinant Arabidopsis thaliana Dihydrolipoyl dehydrogenase 1, mitochondrial (LPD1)

Product Gene Name

LPD1 recombinant protein

Product Synonym Gene Name

LPD1

Purity

Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)

Sequence

ASSGSDENDV VIIGGGPGGY VAAIKASQLG LKTTCIEKRG ALGGTCLNVG CIPSKALLHS SHMYHEAKHS FANHGIKVSS VEVDLPAMLA QKDNAVKNLT RGIEGLFKKN KVTYVKGYGK FISPNEVSVE TIDGGNTIVK GKHIIVATGS DVKSLPGITI DEKKIVSSTG ALSLSEVPKK LIVIGAGYIG LEMGSVWGRL GSEVTVVEFA GDIVPSMDGE IRKQFQRSLE KQKMKFMLKT KVVSVDSSSD GVKLTVEPAE GGEQSILEAD VVLVSAGRTP FTSGLDLEKI GVETDKAGRI LVNDRFLSNV PGVYAIGDVI PGPMLAHKAE EDGVACVEFI AGKHGHVDYD KVPGVVYTHP EVASVGKTEE QLKKEGVSYR VGKFPFMANS RAKAIDNAEG LVKILADKET DKILGVHIMA PNAGELIHEA VLAINYDASS EDIARVCHAH PTMSEALKEA AMATYDKPIH I

Sequence Positions

37-507, Full length protein

Format

Lyophilized or liquid (Format to be determined during the manufacturing process)

Host

E Coli or Yeast or Baculovirus or Mammalian Cell

Molecular Weight

53,988 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

Dihydrolipoyl dehydrogenase

NCBI Accession

NP 001322047.1

NCBI GI#

1063693943

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

Address: SUITE 209, 17 Ramsey Road, Shirley, NY 11967

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E-mail: info@cd-biosci.com
https://www.cd-biosciences.com/plant-protein/

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(Veast)/ 0.02 mg (Raculovirus)/ 0.02 mg (Mammalian-Cell)/ 0.1

NCBI GenBank Nucleotide # (Mammalian-Cell)/ 1 mg (Peast)/ 1 mg (Baculovirus)/ 0.5 mg (Mammalian-Cell) NM 001333291.1

NCBI GenelD

841221

NCBI Official Full Name

mitochondrial lipoamide dehydrogenase 1

NCBI Official Symbol

mtLPD1

NCBI Official Synonym Symbols

mitochondrial lipoamide dehydrogenase 1; T2J15.6

NCBI Protein Information

mitochondrial lipoamide dehydrogenase 1

NCBI Summary

Encodes a mitochondrial lipoamide dehydrogenase whose expression is induced by light.

UniProt Gene Name

LPD1

UniProt Synonym Gene Names

AtmLPD1: mtLPD1: E3-1: PDC-E3 1

UniProt Protein Name

Dihydrolipoyl dehydrogenase 1, mitochondrial

UniProt Synonym Protein Names

Dihydrolipoamide dehydrogenase 1; Glycine cleavage system L protein 1; Pyruvate dehydrogenase complex E3 subunit 1; E3-1; PDC-E3 1

UniProt Primary Accession #

Q9M5K3

UniProt Secondary Accession #

Q9LNF3

UniProt Related Accession #

Q9M5K3

UniProt Comments

Lipoamide dehydrogenase is a component of the glycine decarboxylase (GDC) or glycine cleavage system as well as of the alpha-ketoacid dehydrogenase complexes. LPD1 is probably the protein most often associated with the glycine decarboxylase complex while LPD2 is probably incorporated into alpha-ketoacid dehydrogenase complexes.

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