

2-oxoglutarate dehydrogenase, mitochondrial (OGDC-E1), Recombinant Protein

Cat *RP15299*

Size *0.05 mg (E-Coli)/ 0.2 mg (E-Coli)/ 0.5 mg (E-Coli)/ 0.05 mg (Yeast)/ 0.05 mg (Baculovirus)/ 0.2 mg (Yeast)/ 1 mg (E-Coli)/*

Species *0.5 mg (Yeast)/ 0.1 mg (Baculovirus)/ 0.05 mg (Mammalian-Cell)/ 1 mg (Yeast)/ 0.5 mg (Baculovirus)/ 0.1 mg (Mammalian-Cell)/ 1 mg (Baculovirus)*

Full Product Name

Recombinant *Solanum tuberosum* 2-oxoglutarate dehydrogenase, mitochondrial

Product Synonym Names

Recombinant 2-oxoglutarate dehydrogenase, mitochondrial; 2-oxoglutarate dehydrogenase, mitochondrial EC=1.2.4.2; 2-oxoglutarate dehydrogenase complex component E1; OGDC-E1 Alpha-ketoglutarate dehydrogenase

Product Gene Name

OGDC-E1 recombinant protein

Purity

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

Sequence

AQAAPVPRPV XLSKKTDSF

Sequence Positions

1-19aa; 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

2,024 Da

Storage

Store at -20°C. For extended storage, store at -20 or -80°C.

Protein Family

2-oxoglutarate dehydrogenase

NCBI Accession

P81895.1

NCBI GI

75107032

NCBI Official Full Name

2-oxoglutarate dehydrogenase, mitochondrial

UniProt Gene Name

OGDC-E1

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

2-oxoglutarate dehydrogenase, mitochondrial (OGDC-E1), Recombinant Protein

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Size 0.05 mg (*E-Coli*)/ 0.2 mg (*E-Coli*)/ 0.5 mg (*E-Coli*)/ 0.05 mg (*Yeast*)/ 0.05 mg (*Baculovirus*)/ 0.2 mg (*Yeast*)/ 1 mg (*E-Coli*)/

0.5 mg (*Yeast*)/ 0.1 mg (*Baculovirus*)/ 0.05 mg (*Mammalian-*

UniProt Synonym Gene Names
0.05 mg (*Yeast*)/ 0.5 mg (*Baculovirus*)/ 0.1 mg (*Mammalian-OGDC-E1 Cell*)/ 1 mg (*B*

UniProt Protein Name

2-oxoglutarate dehydrogenase, mitochondrial

UniProt Synonym Protein Names

2-oxoglutarate dehydrogenase complex component E1; OGDC-E1; Alpha-ketoglutarate dehydrogenase

UniProt Entry Name

ODO1_SOLTU

UniProt Primary Accession

P81895

UniProt Comments

Function: The 2-oxoglutarate dehydrogenase complex catalyzes the overall conversion of 2-oxoglutarate to succinyl-CoA and CO₂. It contains multiple copies of three enzymatic components: 2-oxoglutarate dehydrogenase (E1), dihydrolipoamide succinyltransferase (E2) and lipoamide dehydrogenase (E3). Catalytic activity: 2-oxoglutarate + [dihydrolipoamide succinyltransferase] lipoyllysine = [dihydrolipoamide succinyltransferase] S-succinyl-dihydrolipoamide succinyllysine + CO₂. Cofactor: Thiamine pyrophosphate. By similarity. UniProtKB P20967 Subcellular location: Mitochondrion membrane. Sequence similarities: Belongs to the alpha-ketoglutarate dehydrogenase family.

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