

Dihydrolipoamide-residue succinyltransferase component of 2-oxoglutarate dehydrogenase complex (OGDC-E2), Recombinant Protein

Cat *RP15272*

Size *0.02 mg (E-Coli)/ 0.1 mg (E-Coli)/ 0.02 mg (Yeast)/ 0.1 mg (Yeast)/ 0.02 mg (Baculovirus)/ 1 mg (E-Coli)/ 0.02 mg*

Species *(Mammalian-Cell)/ 0.1 mg (Baculovirus)/ 1 mg (Yeast)/ 0.1 mg (Mammalian-Cell)/ 1 mg (Baculovirus)/ 0.5 mg (Mammalian-Solanum tuberosum (Potato) Cell)*

Full Product Name

Recombinant *Solanum tuberosum* Dihydrolipoamide-residue succinyltransferase component of 2-oxoglutarate dehydrogenase complex

Product Synonym Names

Recombinant Dihydrolipoamide-residue succinyltransferase component of 2-oxoglutarate dehydrogenase complex; Dihydrolipoamide-residue succinyltransferase component of 2-oxoglutarate dehydrogenase complex EC= 2.3.1.61; 2-oxoglutarate dehydrogenase complex c

Product Gene Name

OGDC-E2 recombinant protein

Purity

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

Sequence

XSNSGDLVDA VVPYMGESIS

Sequence Positions

1-20. Full Length

Format

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

Host

E Coli or Yeast or Baculovirus or Mammalian Cell

Molecular Weight

2,051 Da

Storage

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

Protein Family

Dihydrolipoamide-residue succinyltransferase component of 2-oxoglutarate dehydrogenase complex

NCBI Accession

P81896.1

NCBI GI

75107033

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

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(Mammalian-Cell)/ 0.1 mg (Baculovirus)/ 1 mg (Yeast)/ 0.1 mg

(Mammalian-Cell)/ 1 mg (Baculovirus)/ 0.5 mg (Mammalian-Cell)

Dihydrolipoamide-residue succinyltransferase component of 2-oxoglutarate dehydrogenase complex

UniProt Gene Name

OGDC-E2

UniProt Synonym Gene Names

OGDC-E2

UniProt Protein Name

Dihydrolipoamide-residue succinyltransferase component of 2-oxoglutarate dehydrogenase complex

UniProt Synonym Protein Names

2-oxoglutarate dehydrogenase complex component E2; OGDC-E2; Dihydrolipoamide succinyltransferase component of 2-oxoglutarate dehydrogenase complex; E2K

UniProt Entry Name

ODO2_SOLTU

UniProt Primary Accession

P81896

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: Succinyl-CoA + enzyme N(6)-(dihydrolipoyl)lysine = CoA + enzyme N(6)-(S-succinyl-dihydrolipoyl)lysine. Cofactor: Binds 1 lipoyl cofactor covalently By similarity. UniProtKB Q01205 Pathway: Amino-acid degradation; L-lysine degradation via saccharopine pathway; glutaryl-CoA from L-lysine: step 6/6. Subunit structure: Forms a 24-polypeptide structural core with octahedral symmetry By similarity. UniProtKB Q01205 Subcellular location: Mitochondrion membrane. Sequence similarities: Belongs to the 2-oxoacid dehydrogenase family.

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