

Recombinant Human DLD, His-tagged

Cat. No. DLD-29949TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human Lipoamide Dehydrogenase fused to His tag at the N-terminus; 511 amino acids with tag, MWt 54.4kDa.
Species	Human
Source	E.coli
Description	This gene encodes the L protein of the mitochondrial glycine cleavage system. The L protein, also named dihydrolipoamide dehydrogenase, is also a component of the pyruvate dehydrogenase complex, the alpha-ketoglutarate dehydrogenase complex, and the branched-chain alpha-keto acid dehydrogenase complex. Mutations in this gene have been identified in patients with E3-deficient maple syrup urine disease and lipoamide dehydrogenase deficiency.
Conjugation	HIS
Form	Liquid
Purity	>95% by SDS-PAGE
Storage buffer	Preservative: None Constituents: 10% Glycerol, 0.1M Sodium chloride, 20mM Tris HCl, 1mM DTT, pH 8.0
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.

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Sequence Similarities	Belongs to the class-I pyridine nucleotide-disulfide oxidoreductase family.
Full Length	Full L.
GENE INFORMATION	
Gene Name	DLD dihydrolipoamide dehydrogenase [Homo sapiens]
Official Symbol	DLD
Synonyms	DLD; dihydrolipoamide dehydrogenase; dihydrolipoamide dehydrogenase (E3 component of pyruvate dehydrogenase complex, 2 oxo glutarate complex, branched chain keto acid dehydrogenase complex) , GCSL, LAD; dihydrolipoyl dehydrogenase, mitochondrial; DLDH; E3
Gene ID	1738
mRNA Refseq	NM_000108
Protein Refseq	NP_000099
MIM	238331
Uniprot ID	P09622
Chromosome Location	7q31-q32
Pathway	2-ketoglutarate dehydrogenase complex, conserved biosystem; 2-oxobutanoate degradation I, conserved biosystem; Branched-chain amino acid catabolism, organism-specific biosystem; Citrate cycle (TCA cycle), organism-specific biosystem;

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Citrate cycle (TCA cycle), conserved biosystem;

Function

NAD binding; dihydrolipoyl dehydrogenase activity; flavin adenine dinucleotide binding; lipoamide binding; oxidoreductase activity;

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