

Recombinant Human DLD protein, His & T7-tagged

Cat. No. DLD-5629H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human DLD aa. (Gly280~His487 (Accession # P09622)) fused with N-terminal His & T7 tag was produced in E. coli cells.
Species	Human
Source	E.coli
ProteinLength	Gly280~His487
Description	This gene encodes a member of the class-I pyridine nucleotide-disulfide oxidoreductase family. The encoded protein has been identified as a moonlighting protein based on its ability to perform mechanistically distinct functions. In homodimeric form, the encoded protein functions as a dehydrogenase and is found in several multi-enzyme complexes that regulate energy metabolism. However, as a monomer, this protein can function as a protease. Mutations in this gene have been identified in patients with E3-deficient maple syrup urine disease and lipoamide dehydrogenase deficiency. Alternative splicing results in multiple transcript variants.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 25.9kDa
Endotoxin	<1.0EU per 1g (determined by the LAL method)
Purity	>95%

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Characteristic	The isoelectric point is 6.1.
Applications	SDS-PAGE; WB; ELISA; IP.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Storage buffer	Supplied as lyophilized form in PBS, pH7.4, containing 5% sucrose, 0.01% sarcosyl.
Reconstitution	Reconstitute in sterile PBS, pH7.2-pH7.4.

GENE INFORMATION

Gene Name	DLD dihydrolipoamide dehydrogenase [Homo sapiens (human)]
Official Symbol	DLD
Synonyms	DLD; dihydrolipoamide dehydrogenase; E3; LAD; DLDD; DLDH; GCSL; PHE3; dihydrolipoyl dehydrogenase, mitochondrial; E3 component of pyruvate dehydrogenase complex, 2-oxo-glutarate complex, branched chain keto acid dehydrogenase complex; diaphorase; glycine cleavage system L protein; glycine cleavage system protein L; lipoamide dehydrogenase; lipoamide reductase; lipoyl dehydrogenase
Gene ID	1738

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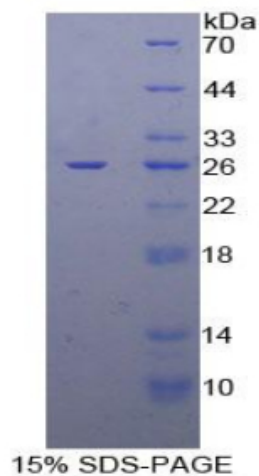
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mRNA Refseq [NM_000108.4](#)

Protein Refseq [NP_000099.2](#)

UniProt ID [P09622](#)

SDS-PAGE



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