

Recombinant Full Length Human DLD Protein, GST-tagged

Cat. No. DLD-3975HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human DLD full-length ORF (AAH18696, 1 a.a. - 509 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	509 amino acids
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. [provided by RefSeq, Jan 2014]
Molecular Mass	81.73 kDa
AA Sequence	MQWSRVYCSLAKRGHFNRISHGLQGLSAVPLRTYADQPIDADVTVIGSGPGGYVA AIKAAQLGFKTVCIKNETLGGTCLNVGCIPSKALLNNSHYHMAHGKDFASRGIEM SEVRLNLDKMMEQKSTAVKALTGGIAHLFKQNKVVHVNGYGKITGKNQVTATKADG GTQVIDTKNILIATGSEVTPFPGITIDEDTIVSSTGALSLKKVPEKMVVIGAGVIGVELG

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SVWQRLGADVTAVEFLGHVGGVGIDMEISKNFQRILQKQGFKFLNTKVTGATKKS
 DGKIDVSIEAASGGKAEVITCDVLLVCIGRRPFTKNLGLEELGIELDPRGRIPVNTRFQ
 TKIPNIYAIGDVVAGPMLAHKAEDEGIICVEGMAGGAVHIDYNCVPSVIYTHPEVAWV
 GKSEEQQLKEEGIEYKVGKFPFAANSRAKTNADTDGMVKILGQKSTDRVLGAHILGPG
 AGEMVNEAALALEYGASCEDIARVCHAHPTLSEAFREANLAASFGKSINF

Applications

Enzyme-linked Immunoabsorbent Assay
 Western Blot (Recombinant protein)
 Antibody Production
 Protein Array

Notes

Best use within three months from the date of receipt of this protein.

Storage

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

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 component of pyruvate dehydrogenase complex; 2 oxo glutarate complex; branched chain keto acid dehydrogenase complex; diaphorase; lipoamide reductase; lipoyl dehydrogenase; lipoamide dehydrogenase; glycine cleavage system L protein; glycine cleavage system protein L; E3 component of pyruvate dehydrogenase complex, 2-oxo-glutarate complex, branched chain keto acid

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dehydrogenase complex; E3; LAD; GCSL; PHE3;

Gene ID 1738**mRNA Refseq** NM_000108**Protein Refseq** NP_000099**MIM** 238331**UniProt ID** P09622 Tel: 1-631-559-9269 1-516-512-3133 Email: info@creative-biomart.com  Fax: 1-631-938-8127 45-1 Ramsey Road, Shirley, NY 11967, USA