

Recombinant Full Length Human DLD Protein, C-Flag-tagged

Cat. No. DLD-1358HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human DLD Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
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	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	50.1 kDa
AA Sequence	MQSWSRVYCSLAKRGHFNRIHGLQGLSAVPLRTYADQPIDADVTIGSGPGGYVA AIKAAQLGFKTVCI EKNETLGGTCLNVGCIPSKALLNNSHYHMAHGKDFASRGIE SEVRLNLDKMMEQKSTAVKALTGGIAH LFKQNKVHVNGYGKITGKNQVTATKADG GTQVIDTKNLIATGSEVTPFPGITIDEDTIVSSTGALSLK KVPEKMVVIGAGVIGVELG SVWQRLGADVTAVEFLGHVGGVGIDMEISKNFQRILQKQGFKFLNTKVTG ATKKS

 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

DGKIDVSIEAASGGKAEVITCDVLLVCIGRRPFTKNLGLLEELGIELDPRGRIPVNTRFQ
TKIPNI YAIGDVVAGPMLAHKAEDEGIICVEGMAGGAVHIDYNCVPSVIYTHPEVAWV
GKSEEQLKEEGIEYKVGK FPFAANSRAKTNADTDGMVKILGQKSTDRVLGAHILGP
GAGEMVNEAALALEYGASCEDIARVCHAHPTL
SEAFREANLAASFGKSINFTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome
Protein Pathways	Citrate cycle (TCA cycle), Glycine, serine and threonine metabolism, Glycolysis / Gluconeogenesis, Metabolic pathways, Pyruvate metabolism, Valine, leucine and isoleucine degradation
Full Length	Full L.

GENE INFORMATION

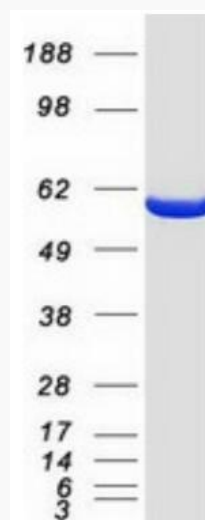
Gene Name	DLD dihydrolipoamide dehydrogenase [Homo sapiens (human)]
Official Symbol	DLD

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Synonyms	E3; LAD; DLDD; DLDH; GCSL; PHE3; OGDC-E3
Gene ID	1738
mRNA Refseq	NM_000108.5
Protein Refseq	NP_000099.2
MIM	238331
UniProt ID	P09622



Coomassie blue staining of purified DLD protein.