Recombinant Human DLD Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. DLD-6687H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	DLD MS Standard C13 and N15-labeled recombinant protein (NP_000099) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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.
Molecular Mass	54.2 kDa
AA Sequence	MQSWSRVYCSLAKRGHFNRISHGLQGLSAVPLRTYADQPIDADVTVIGSGPGGYVA AIKAAQLGFKTVCIEKNETLGGTCLNVGCIPSKALLNNSHYYHMAHGKDFASRGIEM SEVRLNLDKMMEQKSTAVKALTGGIAHLFKQNKVVHVNGYGKITGKNQVTATKADG GTQVIDTKNILIATGSEVTPFPGITIDEDTIVSSTGALSLKKVPEKMVVIGAGVIGVELG SVWQRLGADVTAVEFLGHVGGVGIDMEISKNFQRILQKQGFKFKLNTKVTGATKKS

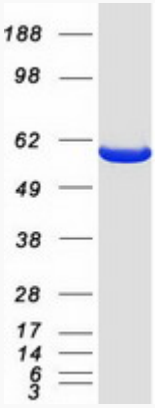
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	DGKIDVSIEAASGGKAEVITCDVLLVCIGRRPFTKNLGLEELGIELDPRGRIPVNTRFQ TKIPNIYAIGDVVAGPMLAHKAEDEGIICVEGMAGGAVHIDYNCVPSVIYTHPEVAWV GKSEEQLKEEGIEYKVGKFPFAANSRAKTNADTDGMVKILGQKSTDRVLGAHILGPG AGEMVNEAALALEYGASCEDIARVCHAHPTLSEAFREANLAASFGKSINFTRTRPLE QKLISEEDLAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 μg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name	DLD dihydrolipoamide dehydrogenase [Homo sapiens (human)]
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
SDS-PAGE	

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