

## Product datasheet for PH300639

### Lipoamide Dehydrogenase (DLD) (NM\_000108) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	DLD MS Standard C13 and N15-labeled recombinant protein (NP_000099)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC200639
Predicted MW:	54.2 kDa
Protein Sequence:	>RC200639 protein sequence Red=Cloning site Green=Tags(s)
	<p>MQSWSRVYCSLAKRGHFNRISHGLQGLSAVPLRTYADQPIDADVTVIGSGPGGYVAAIKAAQLGFKTVCI EKNETLGGTCLNVGCIPSKALLNNSHYHMAHGKDFASRGIEMSEVRLNLDKMMEQKSTAVKALTGGIAH LFKQNKVVHVNGYGKITGKNQVTATKADGGTQVIDTKNILIATGSEVTPFPGITIDEDTIVSSTGALSLK KVPEKMOVIGAGVIGVELGSVWQRLGADVTAVEFLGHVGGVGDIMEISKNFQRILKQGFKFLNKTVTG ATKKS DGKIDVSI EAASGGKAEVITCDVLLVCIGRRPFTKNLGLEELGIELDPRGRIPVNTRFQTKIPNI Y AIGD VVAGPMLAHKAEDEGIICVEGMAGGAVHIDYNCVPSVIYTHPEVAWVGKSEEQLKEEGIEYKVGK FPFAANSRAKTNADTDGMVKILGQKSTDRVLGAHILGPGAGEMVNEAALALEYGASCEDIARVCHAHTL SEAFREANLAASFGKSINF</p> <p>TRTRPLEQKLI SEEDLAANDILDYKDDDDKV</p>
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<u>NP_000099</u>
RefSeq Size:	3613
RefSeq ORF:	1527



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**Synonyms:** DLDD; DLDH; E3; GCSL; LAD; OGDC-E3; PHE3

**Locus ID:** 1738

**UniProt ID:** [P09622](#), [A0A024R713](#)

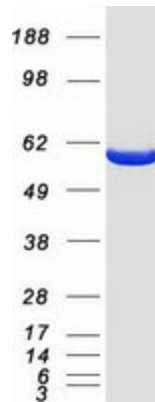
**Cytogenetics:** 7q31.1

**Summary:** 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]

**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

### Product images:



Coomassie blue staining of purified DLD protein (Cat# [TP300639]). The protein was produced from HEK293T cells transfected with DLD cDNA clone (Cat# [RC200639]) using MegaTran 2.0 (Cat# [TT210002]).