

Product datasheet for **TP300639M**

Lipoamide Dehydrogenase (DLD) (NM_000108) Human Recombinant Protein

Product data:

| | |
|---------------------------------------|--|
| Product Type: | Recombinant Proteins |
| Description: | Recombinant protein of human dihydrolipoamide dehydrogenase (DLD), 100 µg |
| Species: | Human |
| Expression Host: | HEK293T |
| Expression cDNA Clone or AA Sequence: | >RC200639 protein sequence Red =Cloning site Green =Tags(s) |

MQSWSRVYCSLAKRGHFNRIHGLQGLSAVPLRITYADQPIDADVTVIGSGPGGYVAAIKAAQLGFKTVCIEKNETLGGTCLNVGCIPSKALLNNSHYHMAHGKDFASRGIEMSEVRLNLDKMMMEQKSTAVKALTGGIAHLFKQNKVVHNGYGGKITGKNQVTATKADGGTQVIDTKNLIATGSEVTPFPGITIDEDTIVSSTGALSCLKVPEKMVIGAGVIGVELGSVWQRLGADVTAVEFLGHVGGVGDMEISKNFQRIQLKQGFKFLNLTQVTGATKKSDBGKIDVSI EAASGGKAEVITCDVLLVCIGRRPFTKNLGLLEELGIELDPRGRIPVNTRFQTKIPNIYAIGDVVAGPMLAHKAEDGEIICVEGMAGGAVHIDYNCVPSVIYTHPEVAWVGKSEEQLKEEGIEYKVGKFPFAANSRAKTNADTDGMVKILGQKSTDRVLGAHILGPGAGEMVNEAALALEYGASCEDIARVCHAHPTLSEAFREANLAASFGKSINF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

| | |
|----------------|--|
| Tag: | C-Myc/DDK |
| Predicted MW: | 50.1 kDa |
| Concentration: | >0.05 µg/µL as determined by microplate BCA method |
| Purity: | > 80% as determined by SDS-PAGE and Coomassie blue staining |
| Buffer: | 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol |
| Preparation: | Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps. |
| Note: | For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process. |
| Storage: | Store at -80°C. |
| Stability: | Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles. |



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RefSeq: [NP_000099](#)

Locus ID: 1738

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

RefSeq Size: 3613

Cytogenetics: 7q31.1

RefSeq ORF: 1527

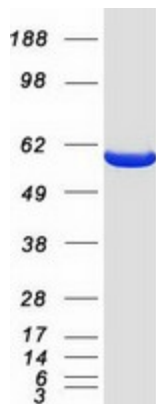
Synonyms: DLDD; DLDH; E3; GCSL; LAD; OGDC-E3; PHE3

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]).