

Product datasheet for **TP300639**

Lipoamide Dehydrogenase (DLD) (NM_000108) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human dihydrolipoamide dehydrogenase (DLD), 20 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC200639 protein sequence Red =Cloning site Green =Tags(s)

MQSWSRVYCSLAKRGHFNRISHGLQGLSAVPLRTYADQPIDADVTVIGSGPGGYVAAIKAAQLGFKTVCI
EKNETLGGTCLNVGCIPSKALLNNSHYHMAHGKDFASRGIEMSEVRLNLDKMMEQKSTAVKALTGGIA
H
LFKQNKVHVNGYGKITGKNQVTATKADGGTQVIDTKNLIATGSEVTPFPGITIDEDTIVSSTGALS
KVPEKMVWIGAGVIGVELGSVWQRLGADVTAVEFLGHVGGVIGIDMEISKNFQRILQKQGFKFLN
TKVTG
ATKKS DGKIDVSI EAASGGKAEVITCDVLLVCIGRRPFTKNLGLLEELGIELDPRGRIPVNT
RFQTKIPNI
YAIGDVVAGPMLAHKAEDGEIICVEGMAGGAVHIDYNCVPSVIYTHPEVAWVGKSEEQLKEEG
IEYKVGK
FPFAANSRAKTNADTDGMVKILGQKSTDRVLGAHILGPGAGEMVNEAALALEYGASCEDIARV
CHAHP
TL
SEAFREANLAASFGKSINF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

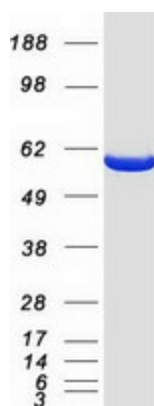
Tag:	C-Myc/DDK
Predicted MW:	50.1 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity 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.



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Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_000099
Locus ID:	1738
UniProt ID:	P09622
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]).