

DLD, 36-509aa, Human, His tag, E.coli

Cat.NO.: TP01889

3th Edition

Synonyms:Dihydrolipoyl dehydrogenase, mitochondrial, DLDH, E3, GCSL, LAD, PHE3

Description:DLD (Dihydrolipoamide dehydrogenase), also known as GCSL (glycine cleavage system L protein), is a component of the glycine cleavage system as well as of the alpha ketoacid dehydrogenase complexes. DLD is a flavin-dependent oxidoreductase and functions as a component of the α -keto acid dehydrogenase, the pyruvate dehydrogenase, the α -ketoglutarate dehydrogenase, the branched-chain α -keto acid dehydrogenase and as the L protein in the mitochondrial glycine cleavage system.

Form:Liquid. In 20 mM Tris-HCl buffer (pH8.0) containing 1mM DTT,0.1M NaCl, 10% glycerol

Molecular Weight:54.4 kDa (511aa)

Sequences:

MRGSHHHHHHGMASMTGGQMQMRDLYDDDDKDRWGSMADQPIDADVTVIGSGPGGYVAAIKAAQLGFKTVICIE
KNETLGGTCLNVGCIPSKALLNNSHYHMAHGKDFASRGIEMSEVRLNLDKMMEQKSTAVKALTGGIAHLFKQNKV
VHVNGYGKITGKNQVTATKADGGTQVIDTKNLIATGSEVTPFPGITIDEDTIVSSTGALSLLKKVPEKMMVVIGAGVIGVE
LGSVWQRLGADVTAVEFLGHVGGVGDMEISKNFQRILQKQGFKFLNTKVTGATKKSDGKIDVSI EAASGGKAEVI
TCDVLLVCIGRRPFTKNLGLEELGIELDPRGRIPVNTRFQTKIPNIYAIGDVVAGPMLAHKAEDGEIICVEGMAGGAVH
IDYNCVPSVIYTHPEVAWVGKSEEQLKEEGIEYKVGKFPFAANSRAKTNADTDGMVKILGQKSTDRVLGAHILGPGA
GEMVNEAALALEYGASCEDIARVCHAHPTLSEAFREANLAASFGKSINF

Purity:> 95% by HPLC

Concentration:1 mg/ml (determined by Bradford assay)

Endotoxin Level:<1.0 EU per 1 ug of protein (determined by LAL method)

Storage:Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.