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DLD, human recombinant protein

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

Catalog # PBV11388r

Specification

DLD, human recombinant protein - Product info

Primary Accession	P09622
Concentration	1
Calculated MW	54.4 kDa (511 aa, 36-509 aa + His Tag) KDa

DLD, human recombinant protein - Additional Info

Gene ID	1738
Gene Symbol	DLD

Other Names

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

Gene Source	Human
Source	E.coli
Assay&Purity	SDS-PAGE; ≥95%
Assay2&Purity2	N/A;
Recombinant	Yes
Results	Specific activity: > 50 units/ml
Sequence	MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSMADQ PIDADVTVIG SGPGGYVAAI KAAQLGFKTV CIEKNETLGG TCLNVGCIPS KALLNNSHYY HMAHGKDFAS RGIEMSEVRL NLDKMMEQKS TAVKALTGGI AHLFKQNKVV HVNGYGKITG KNQVTATKAD GGTQVIDTKN ILIATGSEVT PFPGITIDED TIVSSTGALS LKKVPEKMVV IGAGVIGVEL GSVWQRLGAD VTAVEFLGHV GGVGIDMEIS KNFQRILQKQ GFKFKLNTKV TGATKKSDGK IDVSIEAASG GKAEVITCDV LLVCIGRRPF TKNLGLEELG IELDPRGRIP VNTRFQTKIP NIYAIGDVVA GPMLAHKAED EGIICVEGMA GGAVHIDYNC VPSVIYTHPE VAWVGKSEEQ LKEEGIEYKV GKFPFAANSR AKTNADTDGM VKILGQKSTD RVLGAHILGP GAGEMVNEAA LALEYGASCE DIARVCHAHP TLSEAFREAN LAASFGKSIN F

Target/Specificity

DLD

Format

Liquid

Storage

-20°C; 1 mg/ml solution in 20 mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 1 mM DTT and

0.1 M NaCl

DLD, human recombinant protein - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

DLD, human recombinant protein - Images

DLD, human recombinant protein - Background

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 alpha-keto acid dehydrogenase, the pyruvate dehydrogenase, the alpha-ketoglutarate dehydrogenase, the branched-chain alpha-keto acid dehydrogenase and as the L protein in the mitochondrial glycine cleavage system. Mutations in DLD protein can result in MSuD (maple syrup urine disease) and congenital infantile lactic acidosis. Recombinant human DLD protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.

DLD, human recombinant protein - References

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