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DLD Human

Catalog #:ENPS-509

For research use only.

Description:DLD Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 511 amino acids (36-509 a.a.) and having a molecular mass of 54.4 kDa. The DLD is fused to a 37 amino acid His Tag at N-terminus andpurified by proprietary chromatographic techniques.

Synonyms:EC 1.8.1.4, DLD, DLDH, GCSL, PHE3, Dihydrolipoyl dehydrogenase mitochondrial, Dihydrolipoamide dehydrogenase, Glycine cleavage system L protein, LAD, E3.

Source: Escherichia Coli.

Physical Appearance: Sterile Filtered clear colorless solution.

Amino Acid Sequence:MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSMADQ PIDADVTVIG SGPGGYVAAI KAAQLGFKTV CIEKNETLGG TCLNVGCIPS KALLNNSHYY HMAHGKDFAS RGIEMSEVRL NLDKMMEQKS TAVKALTGGI AHLFKQNKVV HVNGYGKITG KNQVTATKAD GGTQVIDTKN ILIATGSEVT PFPGITIDED TIVSSTGALS LKKVPEKMVV IGAGVIGVEL GS

Purity: Greater than 95% as determined by SDS-PAGE.

Formulation:
The DLD solution contains 20mM Tris-HCl pH-8, 1mM DTT, 0.1M NaCl and 10% glycerol.

Stability:
DLD Recombinant Human althoμgh stable at 4°C for 30 days, should be stored below -20°C for periods greater than 30 days. Please avoid freeze-thaw cycles.

Usage:
NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drμgs, agricultural or pesticidal products, food additives or household chemicals.

Introduction:
DLD is an L protein of the mitochondrial glycine cleavage system which is also a component of the pyruvate dehydrogenase complex, the alpha-ketoglutarate dehydrogenase complex, and the branched-chain alpha-keto acide dehydrogenase complex. DLD mutations were found in patients with E3-deficient maple syrup urine disease and lipoamide dehydrogenase deficiency.

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