

Dihydrolipoamide Dehydrogenase Recombinant Protein | DLD recombinant protein

Recombinant Human Dihydrolipoamide Dehydrogenase

CATALOG #
AAA38797

HOST
E Coli

PRODUCT SYNONYMS

Dihydrolipoamide Dehydrogenase; Recombinant Human Dihydrolipoamide Dehydrogenase; DLD Human; Dihydrolipoamide Dehydrogenase Human Recombinant; EC 1.8.1.4; DLD; DLDH; GCSL; PHE3; Dihydrolipoyl dehydrogenase mitochondrial; Dihydrolipoamide dehydrogenase; Glycine cleavage system L protein; LAD; E3; DLD recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	Greater than 95% as determined by SDS-PAGE.
Form/Format	The DLD solution contains 20mM Tris-HCl pH-8, 1mM DTT, 0.1M NaCl and 10% glycerol. Sterile Filtered clear colorless solution.
Sequence	MRGSHHH HHHGMASMTG GQQMGRDLYD DDD KDRWGSMADQPIDADV TVIGSGPGGY VAAIKAAQLG FKTVCKEKN TLGGTCLNVG CIPSKALLNN SHYYHMAHGK DFASRGIEMS EVRLNLDKMM EQKSTAVKAL TGGIAHLFKQ NKVVHVNGYG KITGKNQVTA TKADGGTQVI DTKNLIATG SEVTPFPGIT IDEDTIVSST GALSLKKVPE KVVVIGAGVI GVELGSVWQR LGADVTAVEF LGHVGGVGID MEISKNFQRI LQKQGFKFKL NTKVTGATKK SDGKIDVSIE AASGGKAEVI TCDVLLVCIG RRPFTKNLGL EELGIELDPR GRIPVNTRFQ TKIPNIYAIG DVVAGPMLAH KAEDEGIICV EGMAGGAVHI DYNVPSVIY THPEVAWVGK SEEQLKEEGI EYKVGKFPFA ANSRAKTNAD TDGMVKILGQ KSTDRLVGAH ILGPGAGEMV NEAALALEYG ASCEDIARVC HAHPTLSEAF REANLAASFG KSINF
Sequence Length	509
Preparation and Storage	DLD Recombinant Human although stable at 4 degree C for 30 days, should be stored below -20 degree C for periods greater than 30 days. Please avoid freeze-thaw cycles.

ADDITIONAL INFORMATION

Related Product Information for DLD recombinant protein	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 and purified by proprietary chromatographic techniques. 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 acid dehydrogenase complex. DLD mutations were found in patients with E3-deficient maple syrup urine disease and lipoamide dehydrogenase deficiency.
Product Categories/Family for DLD recombinant protein	Enzymes; Dehydrogenase

NCBI AND UNIPROT INFORMATION

NCBI GI #	91199540
NCBI GeneID	1738
NCBI Accession #	NP_000099.2
NCBI GenBank Nucleotide #	NM_000108.4

UniProt Accession #	P09622; Q14131; Q14167; Q59EV8; Q8WTS4; B2R5X0; B4DHG0; B4DT69
Molecular Weight	49,283 Da
NCBI Official Full Name	dihydrolipoyl dehydrogenase, mitochondrial isoform 1
NCBI Official Synonym Full Names	dihydrolipoamide dehydrogenase
NCBI Official Symbol	DLD
NCBI Official Synonym Symbols	E3; LAD; DLDD; DLDH; GCSL; PHE3
NCBI Protein Information	dihydrolipoyl dehydrogenase, mitochondrial; E3 component of pyruvate dehydrogenase complex, 2-oxo-glutarate complex, branched chain keto acid dehydrogenase complex; diaphorase; glycine cleavage system L protein; glycine cleavage system protein L; lipoamide dehydrogenase; lipoamide reductase
UniProt Protein Name	Dihydrolipoyl dehydrogenase, mitochondrial
UniProt Gene Name	DLD
UniProt Synonym Gene Names	GCSL; LAD; PHE3
UniProt Entry Name	DLDH_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/dld-recombinant-protein-e-coli/38797>