

Recombinant Full Length Human DLAT Protein, GST-tagged

Cat. No. DLAT-3974HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human DLAT full-length ORF (NP_001922.2, 1 a.a. - 647 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	647 amino acids
Description	This gene encodes component E2 of the multi-enzyme pyruvate dehydrogenase complex (PDC). PDC resides in the inner mitochondrial membrane and catalyzes the conversion of pyruvate to acetyl coenzyme A. The protein product of this gene, dihydrolipoamide acetyltransferase, accepts acetyl groups formed by the oxidative decarboxylation of pyruvate and transfers them to coenzyme A. Dihydrolipoamide acetyltransferase is the antigen for antimitochondrial antibodies. These autoantibodies are present in nearly 95% of patients with the autoimmune liver disease primary biliary cirrhosis (PBC). In PBC, activated T lymphocytes attack and destroy epithelial cells in the bile duct where this protein is abnormally distributed and overexpressed. PBC eventually leads to cirrhosis and liver failure. Mutations in this gene are also a cause of pyruvate dehydrogenase E2 deficiency which causes primary lactic acidosis in infancy and early childhood.[provided by RefSeq, Oct 2009]
Molecular Mass	95.4 kDa
AA Sequence	MWRVCARRAQNVAPWAGLEARWTALQEVPGTPRVTSRSGPAPARRNSVTTGYGG

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VRALCGWTPSSGATPRNRLLQLLGSPGRRYYSLPPHQKVPLPSLSPTMQAGTIAR
 WEKKEGDKINEGDLIAEVETDKATVGFESLEECYMAKILVAEGTRDVPIGAIICITVGK
 PEDIEAFKNYTLDSAAPTPQAAPAPTPAATASPPTPSAQAPGSSYPHMQVLLPAL
 SPTMTMGTVQRWEKKVGEKLSEGDLAEIETDKATIGFEVQEEGYLAKILVPEGTRD
 VPLGTPLCIIVEKEADISAFADYRPTVTDLKPQVPPPTPPPVAAPPTPQPLAPTPSA
 PCPATPAGPKGRVFSPLAKKLAVEKGIDLTQVKGTGPDGRITKKDIDSFVPSKVAPA
 PAAVVPPTGPGMAPVPTGVFTDIPISNIRRVIAQRLMQSKQTIPHYLSIDVNMGEVLL
 VRKELNKILEGRSKISVNDFFIKASALACKVPEANSSWMDTVIRQNHVVDVSVAVST
 PAGLITPIVFNAHIKGVETIANDVSLATKAREGKLQPHEFQGGTFTISNLGMFGIKNF
 SAIINPPQACILAIGASEDKLVPADNEKGFVDVASMMSVTLSCDHRVVDGAVGAQWLA
 EFRKYLEKPITMLL

Applications

Enzyme-linked Immunoabsorbent Assay
 Western Blot (Recombinant protein)
 Antibody Production
 Protein Array

Notes

Best use within three months from the date of receipt of this protein.

Storage

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name

DLAT dihydrolipoamide S-acetyltransferase [Homo sapiens]

Official Symbol

DLAT

Synonyms

DLAT; dihydrolipoamide S-acetyltransferase; DLTA; dihydrolipoyllysine-residue acetyltransferase component of pyruvate dehydrogenase complex, mitochondrial; E2

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component of pyruvate dehydrogenase complex; PDC E2; PBC; M2 antigen complex 70 kDa subunit; pyruvate dehydrogenase complex component E2; 70 kDa mitochondrial autoantigen of primary biliary cirrhosis; dihydrolipoamide acetyltransferase component of pyruvate dehydrogenase complex; dihydrolipoyllysine-residue acetyltransferase component of pyruvate dehydrogenase complex mitochondrial; PDCE2; PDC-E2;

Gene ID	1737
mRNA Refseq	NM_001931
Protein Refseq	NP_001922
MIM	608770
UniProt ID	P10515