

## Recombinant Human LIAS, His-tagged

Cat. No. LIAS-27755TH Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant full length protein, corresponding to amino acids 1-372 of Human LIAS, with N terminal His tag; 372 amino acids, 43kDa.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	1-372 a.a.
<b>Description</b>	The protein encoded by this gene belongs to the biotin and lipoic acid synthetases family. It localizes in mitochondrion and plays an important role in alpha-(+)-lipoic acid synthesis. It may also function in the sulfur insertion chemistry in lipoate biosynthesis. Alternative splicing occurs at this locus and two transcript variants encoding distinct isoforms have been identified.
<b>Conjugation</b>	HIS
<b>Form</b>	Lyophilised:Reconstitution with 129 µl aqua dest.
<b>Storage buffer</b>	Preservative: None Constituents: 0.5% Trehalose, 6M Urea, 100mM Sodium phosphate, 10mM Sodium chloride, pH 4.5
<b>Storage</b>	Shipped at 4°C. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
<b>Sequences of amino</b>	MSLRCGDAARTLGPRVFGRYFCSPVRPLSSLPDKKKELLQ NGPDLQDFVSGDLAD

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**acids**

RSTWDEYKGNLKRQKGERLRLPP WLKTEIPMGKNYNKLNKNTLRNLNLHTVCEEAR  
 CPNIGE CWGGGEYATATATIMLMGDTCTRGCRCFCSVKTARNPPP LDASEPYNTAK  
 AIAEWGLDYVVLTSVDRDDMPDGGAEH IAKTVSYLKERNPKILVECLTPDFRGDLKA  
 IEKVALSGLD VYAHNVETVPELQSKVRDPRANFDQSLRVLKHAKKVQP DVISKTSIM  
 LGLGENDEQVYATMKALREADVDCLTLGQ YMQPTRRHLKVEEYITPEKFKYWEKV  
 GNELGFHYTASG PLVRSSYKAGEFFLKNLVAKRKTDL

**Full Length**

Full L.

## GENE INFORMATION

**Gene Name**

LIAS lipoic acid synthetase [ Homo sapiens ]

**Official Symbol**

LIAS

**Synonyms**

LIAS; lipoic acid synthetase; lipoyl synthase, mitochondrial; LAS;

**Gene ID**

11019

**mRNA Refseq**

NM\_006859

**Protein Refseq**

NP\_006850

**MIM**

607031

**Uniprot ID**

O43766

**Chromosome  
Location**

4p14

**Pathway**

Lipoic acid metabolism, organism-specific biosystem; Lipoic acid metabolism,

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conserved biosystem; Metabolic pathways, organism-specific biosystem;

**Function**

4 iron, 4 sulfur cluster binding; lipoate synthase activity; metal ion binding; transferase activity;

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